

HYSPPLIT-based forecast product for the Grand Bay Intensive

Based on the t00z NAM-12km forecast generated by the National Weather Service

This forecast starts at UTC 00 for the given date, which is 7 PM the night before in Grand Bay time (GBT). The hours displayed in this product – 9 AM to 8 PM GBT – thus represent hours 14-25 in the 48 hr t00z forecast. The file becomes available to NOAA ARL at ~2:00 AM GBT, and the processing of the data to make this product is generally done by 5:00 – 6 00 GBT.

Trajectories (pages 2-13)

- One page for each local hour from 9 AM to 8 PM
- Image in upper left corner is mixing height (m)
- The other five images are back-trajectory maps, each map representing a starting point at a different elevation (meters) above mean-sea-level (250, 500, 1000, 2000, and 3000)
- There are nine trajectories shown on each map: one starting at the Grand Bay NERR and on a +/- 1 deg lat/long grid around the NERR
- The trajectories each go back 96 hours; but the trajectories may not stay on the map for all 96 hours.
- On each trajectory there is a little dot showing the location at six-hour intervals; and a larger symbol at 00 UTC each day.
- In the panel below the trajectories, the height above the surface is shown for each trajectory as it goes back in time
- Note that elevations in trajectory maps are shown as being “above ground level”, and the starting heights labels in the panels below each trajectory are shown for the first trajectory run. This happened to started over land where the elevation was ~80m, so, the labels happen to refer to that trajectory, so the labels say ~170, 420, 920, 1920, and 2920.

Wind Direction at Different Elevations (pages 14-25)

- One page for each local hour from 9 AM to 8 PM
- Each image shows a map of wind direction, at each grid point in the NAMSF 12-km forecast at a particular vertical level in the met data set
- There are 6 maps, corresponding approximately to the elevations 10, 250, 500, 1000, 2000, 3000.
- The met data is on “terrain following sigma levels”; so, the heights above the ground at any given location are influenced by the terrain height.

Meteorological Data Contours (pages 26-37)

- One page for each local hour from 9 AM to 8 PM
- Image in upper left corner and upper middle are the mixing height (same map as shown on Trajectory pages). The two maps are slightly different due do differing interpolation procedures
- The map in the upper right corner is forecast precipitation, shown as a 3-hr accumulation, ending at that hour; that is the amounts shown are the total forecast precipitation over the previous 3 hrs.
- Other maps shown are for the following three surface parameters: pressure, downward shortwave radiation flux, and friction velocity

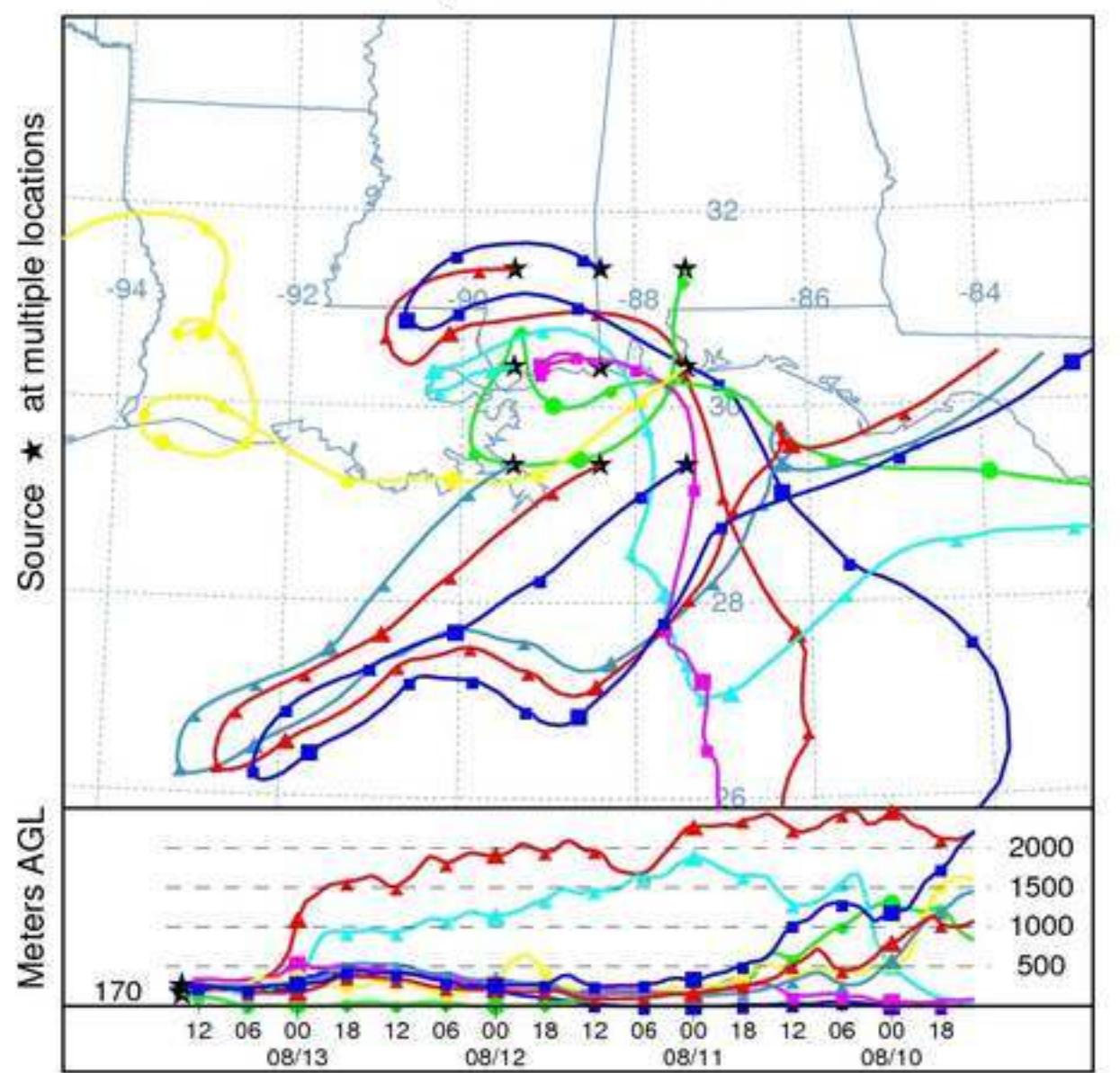
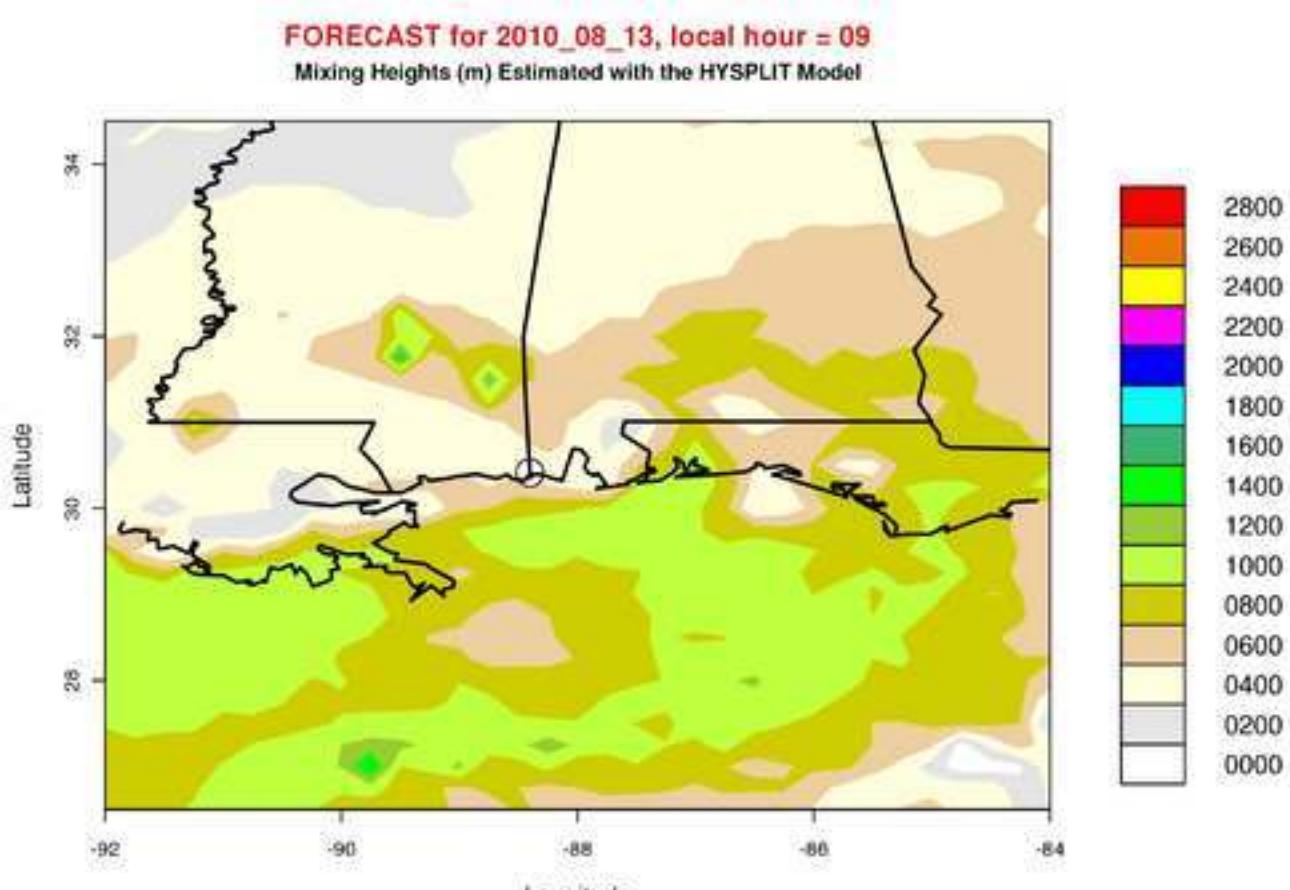
Meteorological Data for Grand Bay NERR (pages 38-50)

- Page 38 is description of data that are shown
- Then, one page for each local hour from 9 AM to 8 PM
- Each page shows the meteorological data at the surface and at each level of the gridded, forecast meteorological data set.
- Note that on these pages and throughout, times are expressed in UTC (Universal Time Coordinate). These are currently 5 hrs ahead of Grand Bay, e.g., 9 AM Grand Bay is 2 PM UTC (or UTC 14)

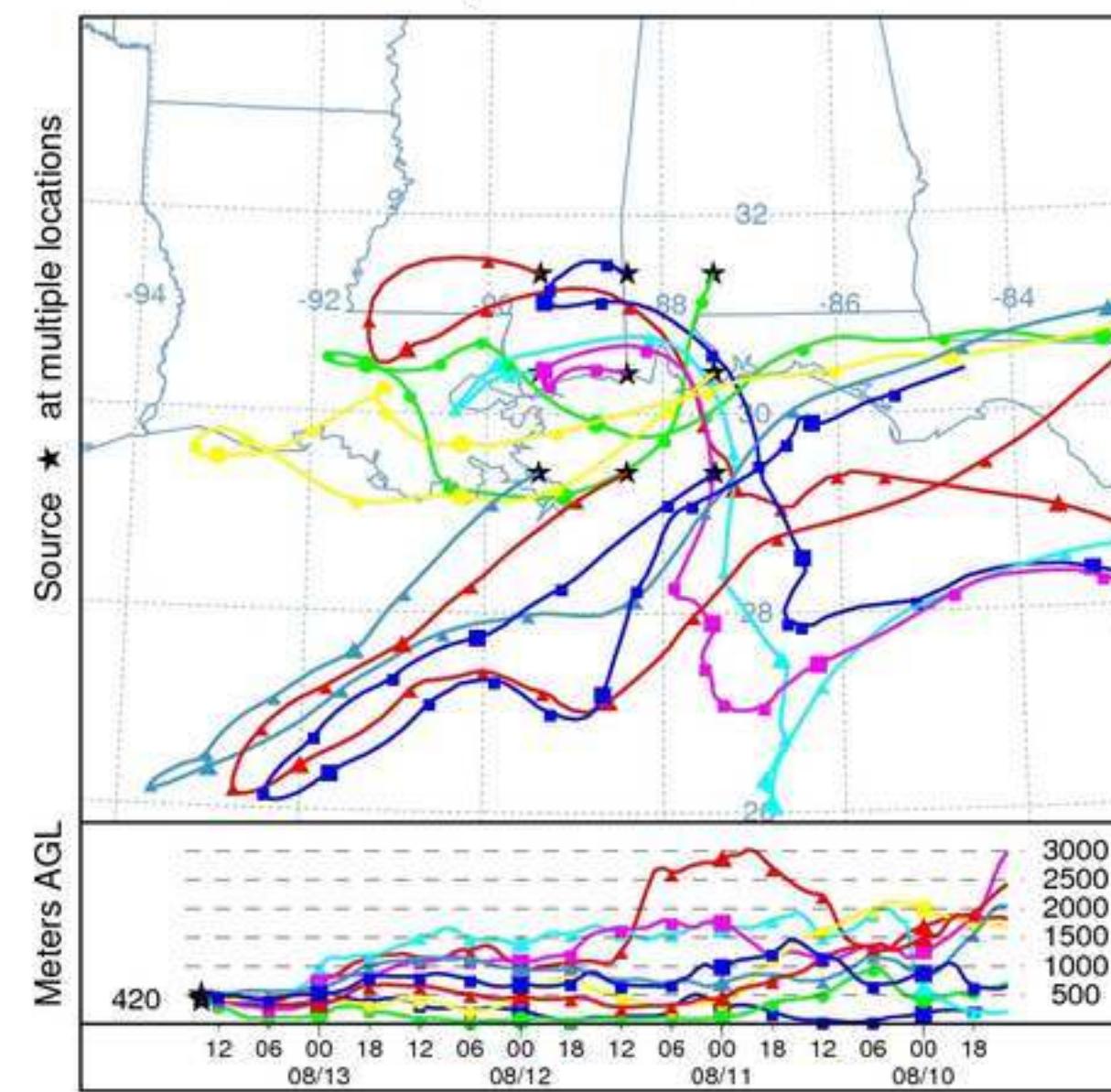
RGM Plumes from Large Regional Sources (pages 51-63)

- Page 51 shows a map of some of the large sources in the region; as stated on map, some of the sources are no longer emitting. These sources were not included in these simulations.
- One page for each local hour from 9 AM to 8 PM; each page shows model-estimated RGM concentrations for six different vertical layers n the atmosphere.
- These maps do not represent the total RGM in the atmosphere, but only the fraction contributed by large regional sources.
- The maps show average concentrations for the hour leading up to the stated hour, e.g., the map for UTC 14 represents average concentrations between UTC 13 and 14 (8 – 9 AM Grand Bay)

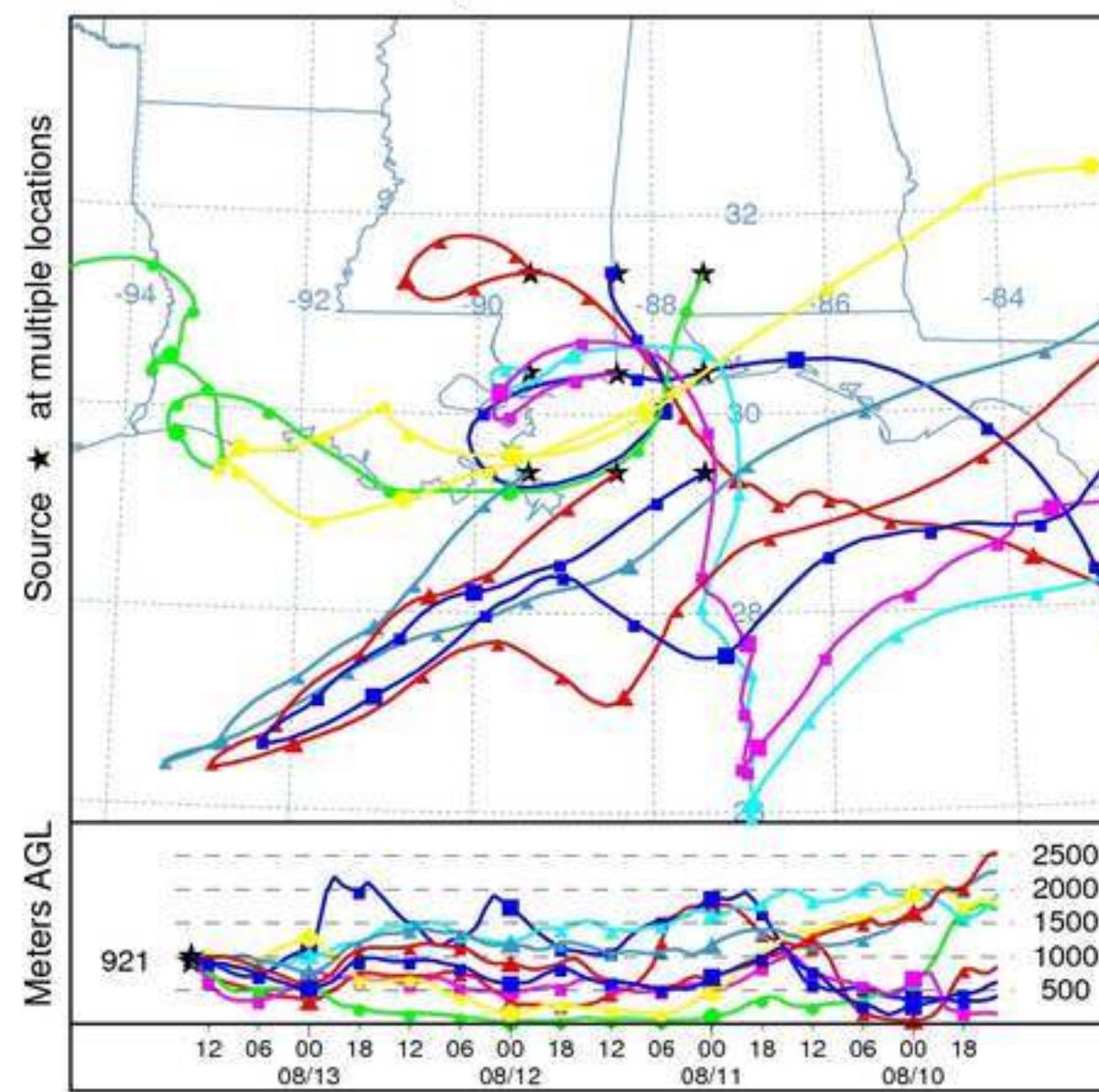
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Backward trajectories ending at 1400 UTC 13 Aug 10
00 UTC 13 Aug NAMS Forecast Initialization



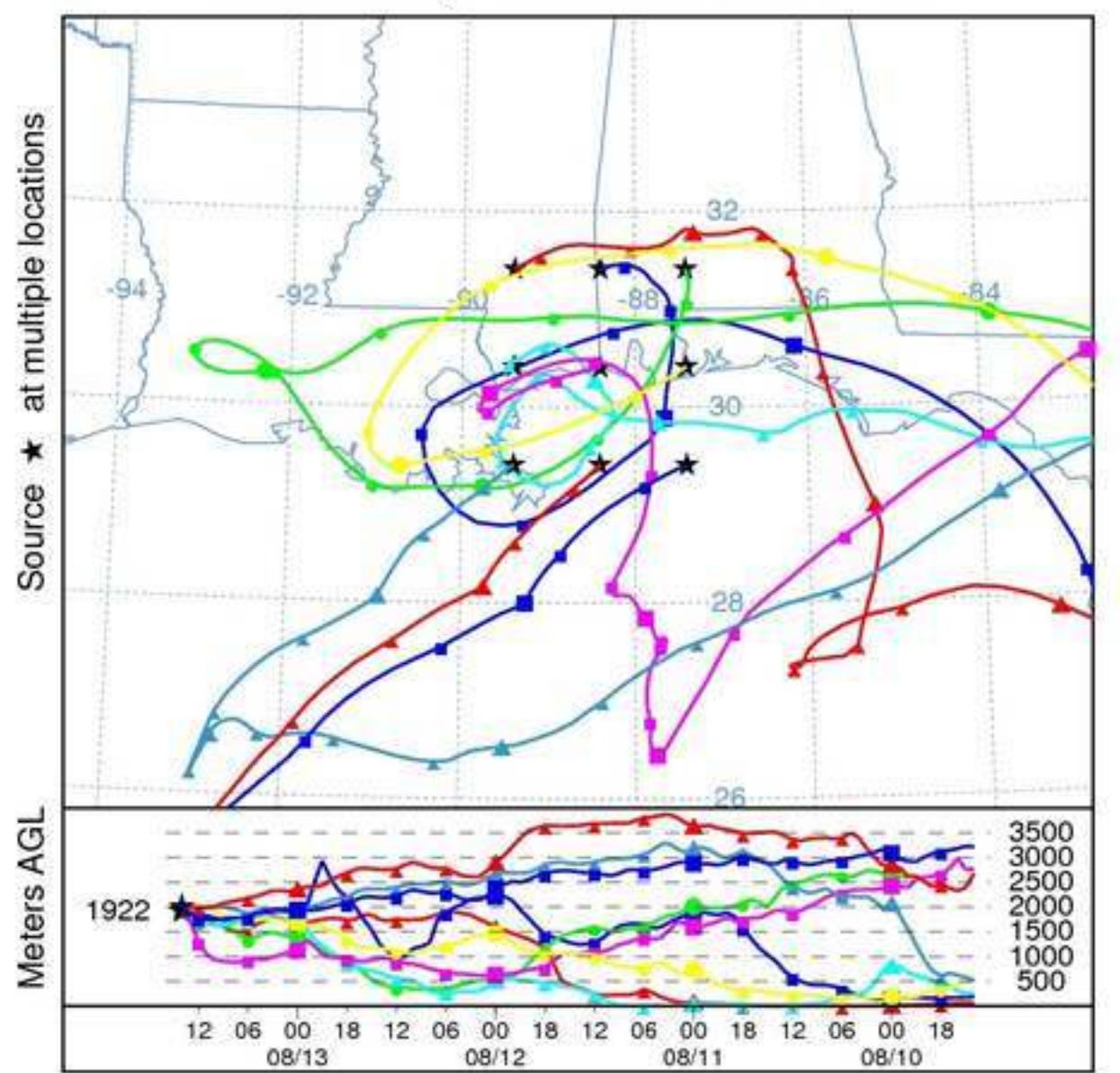
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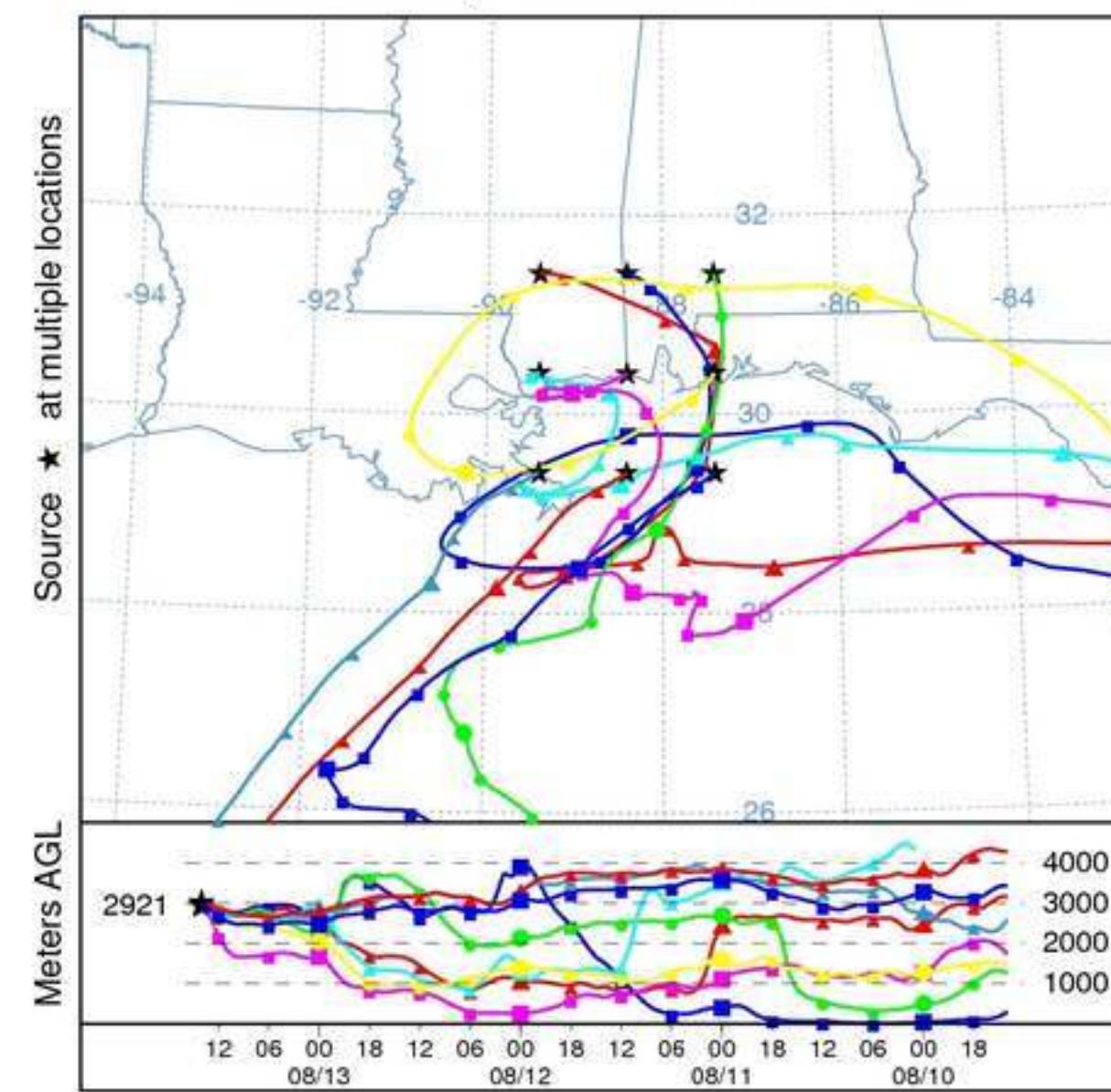
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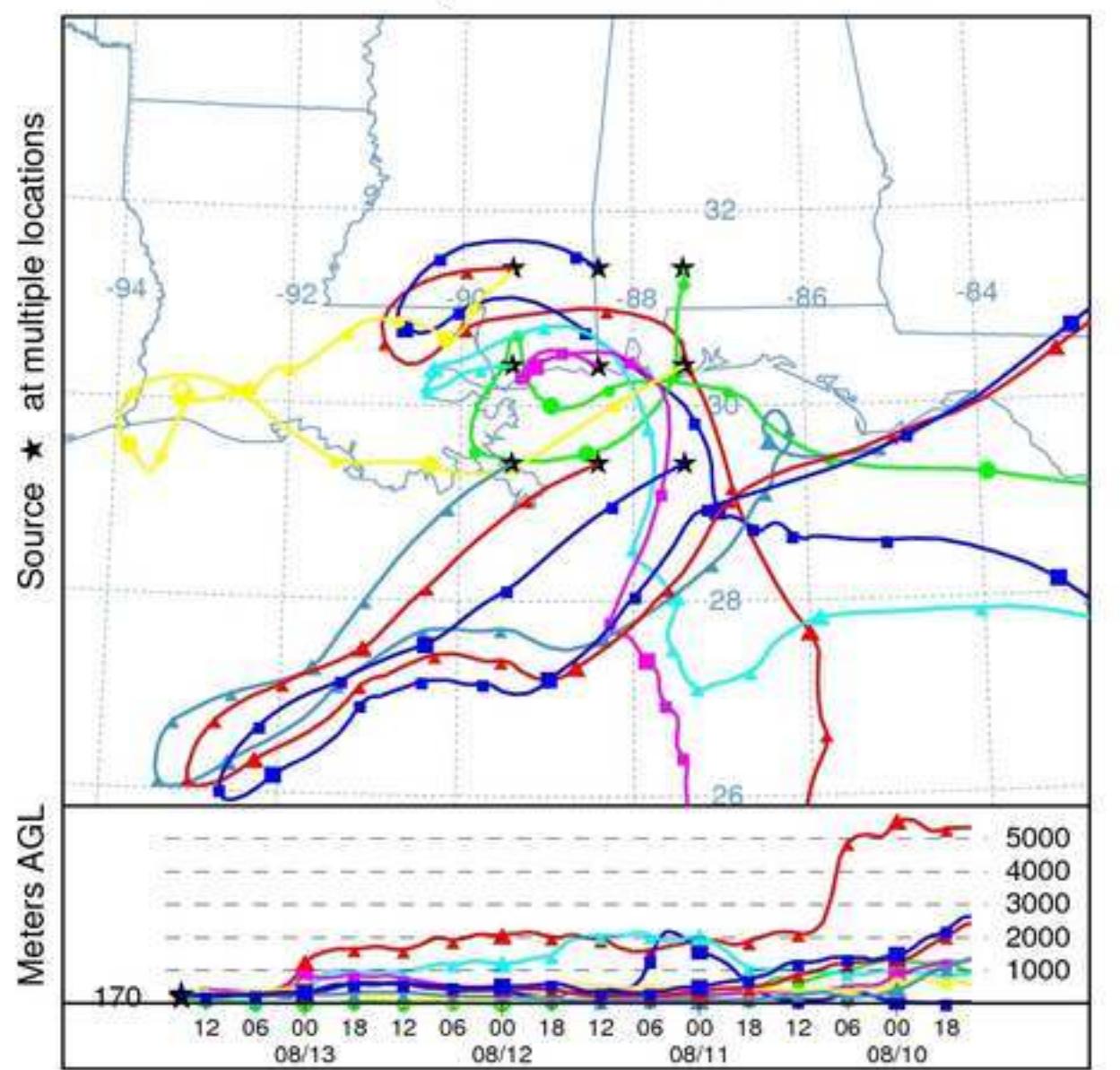
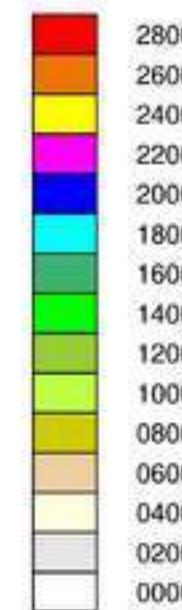
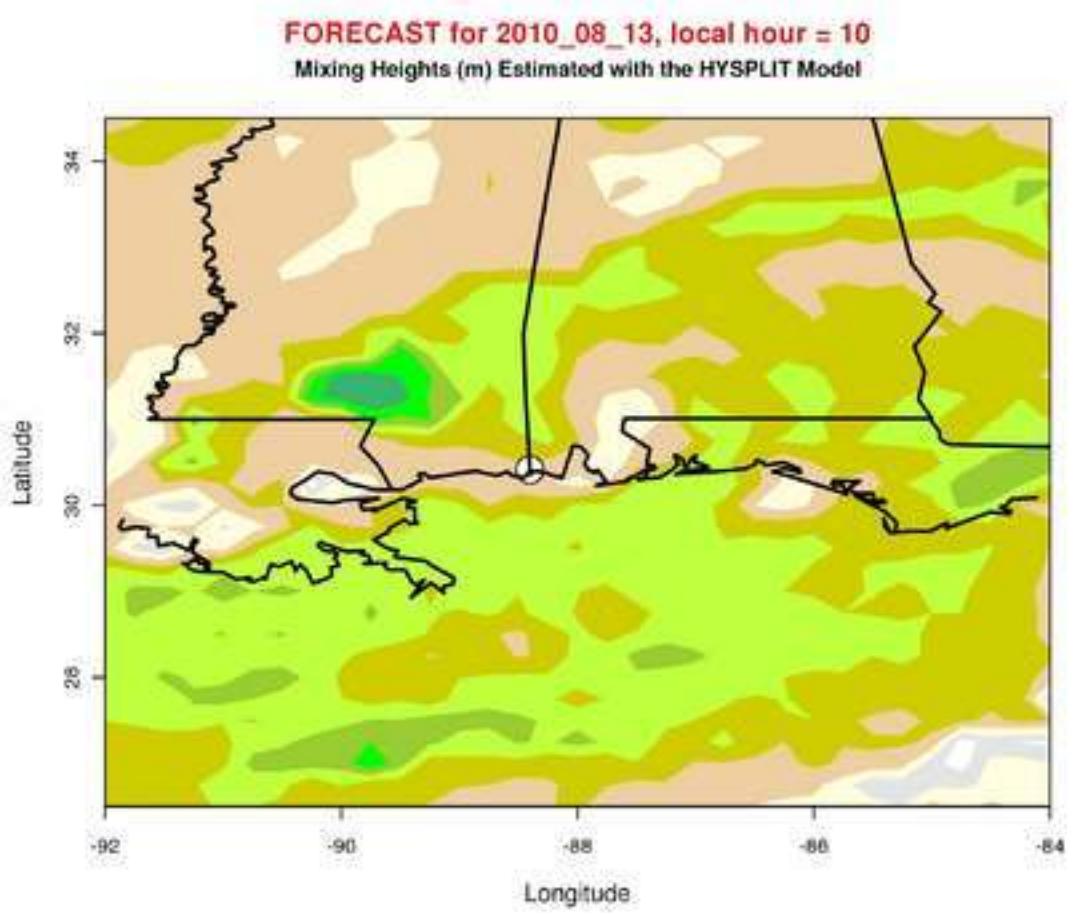
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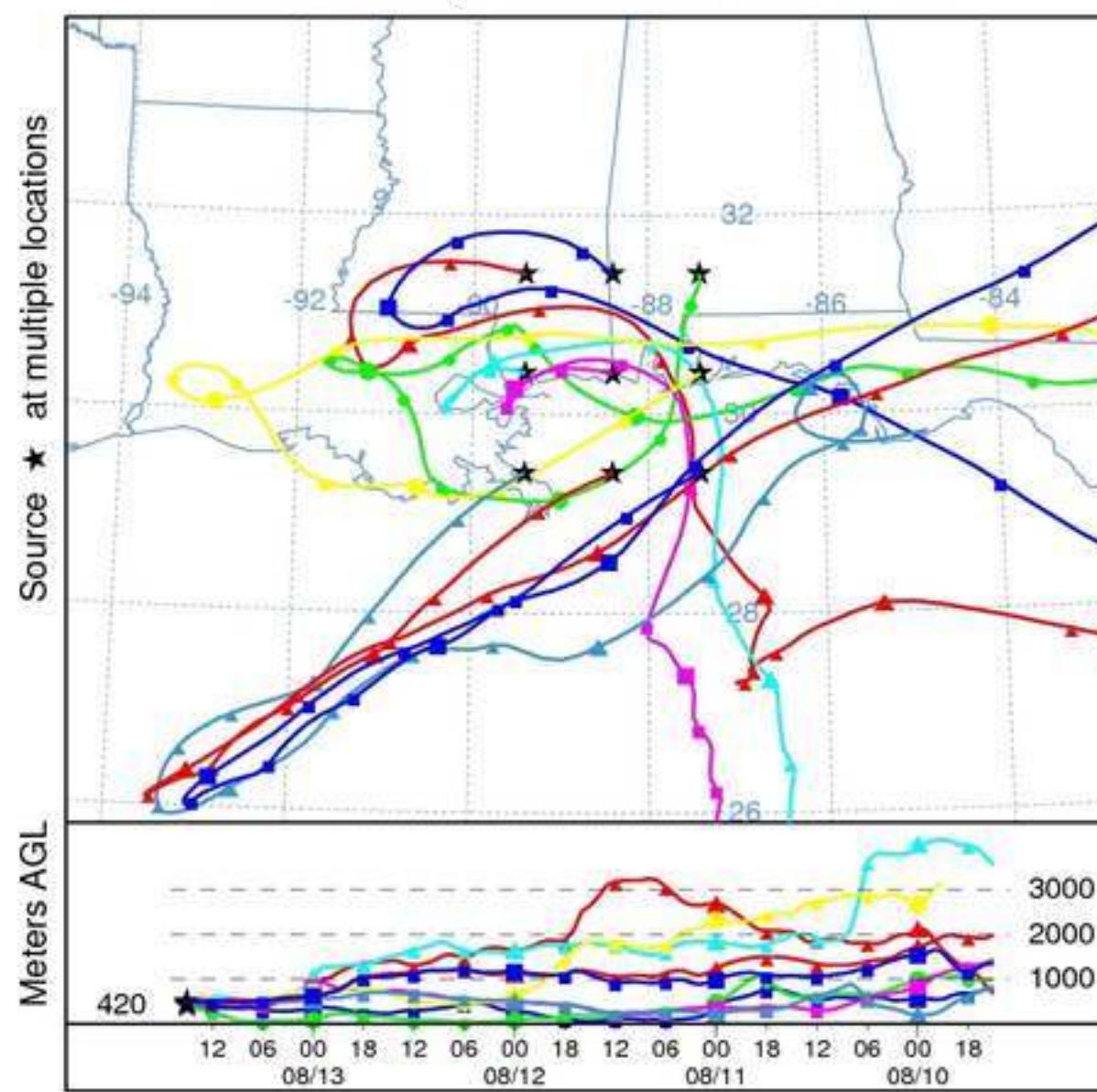
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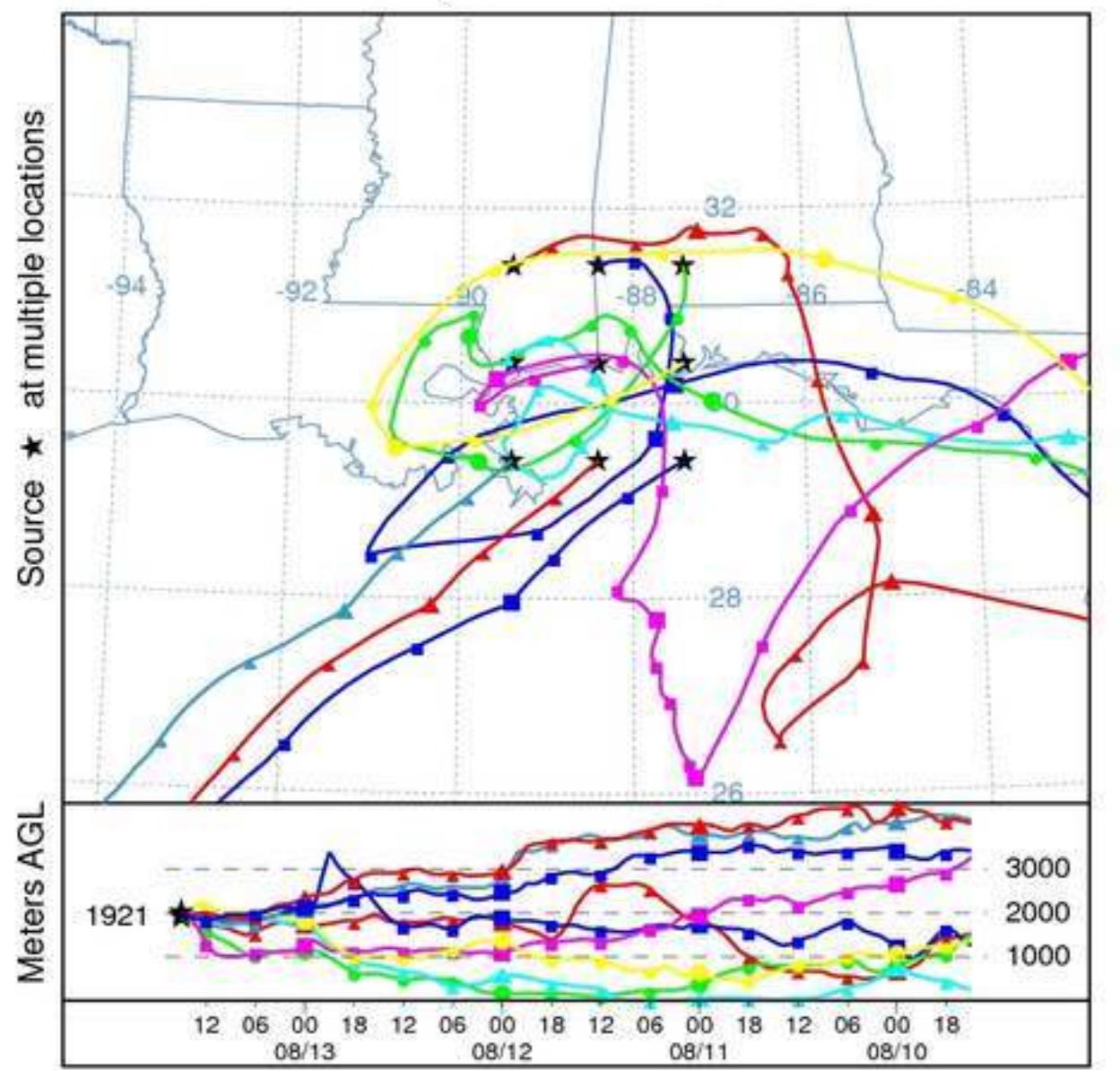
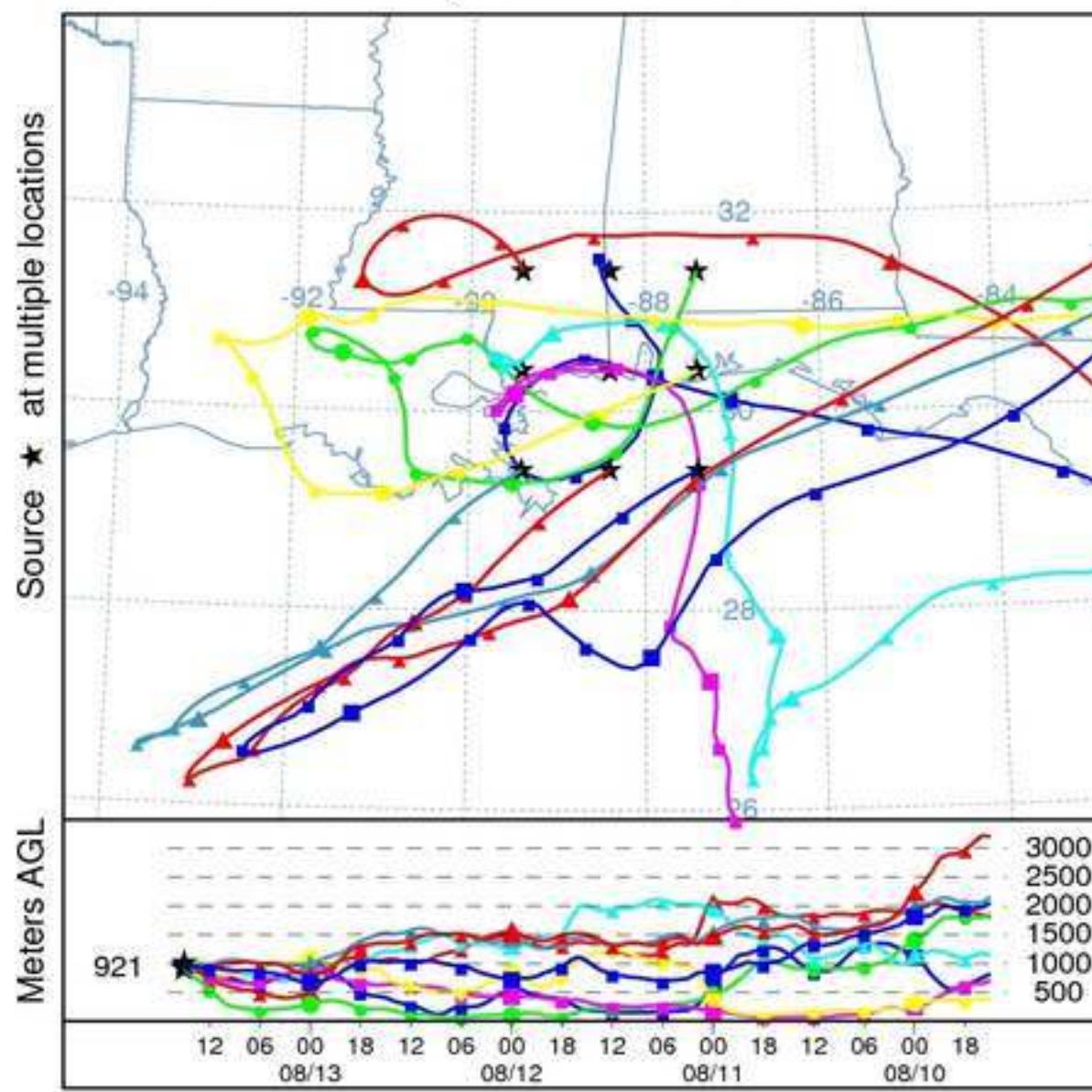
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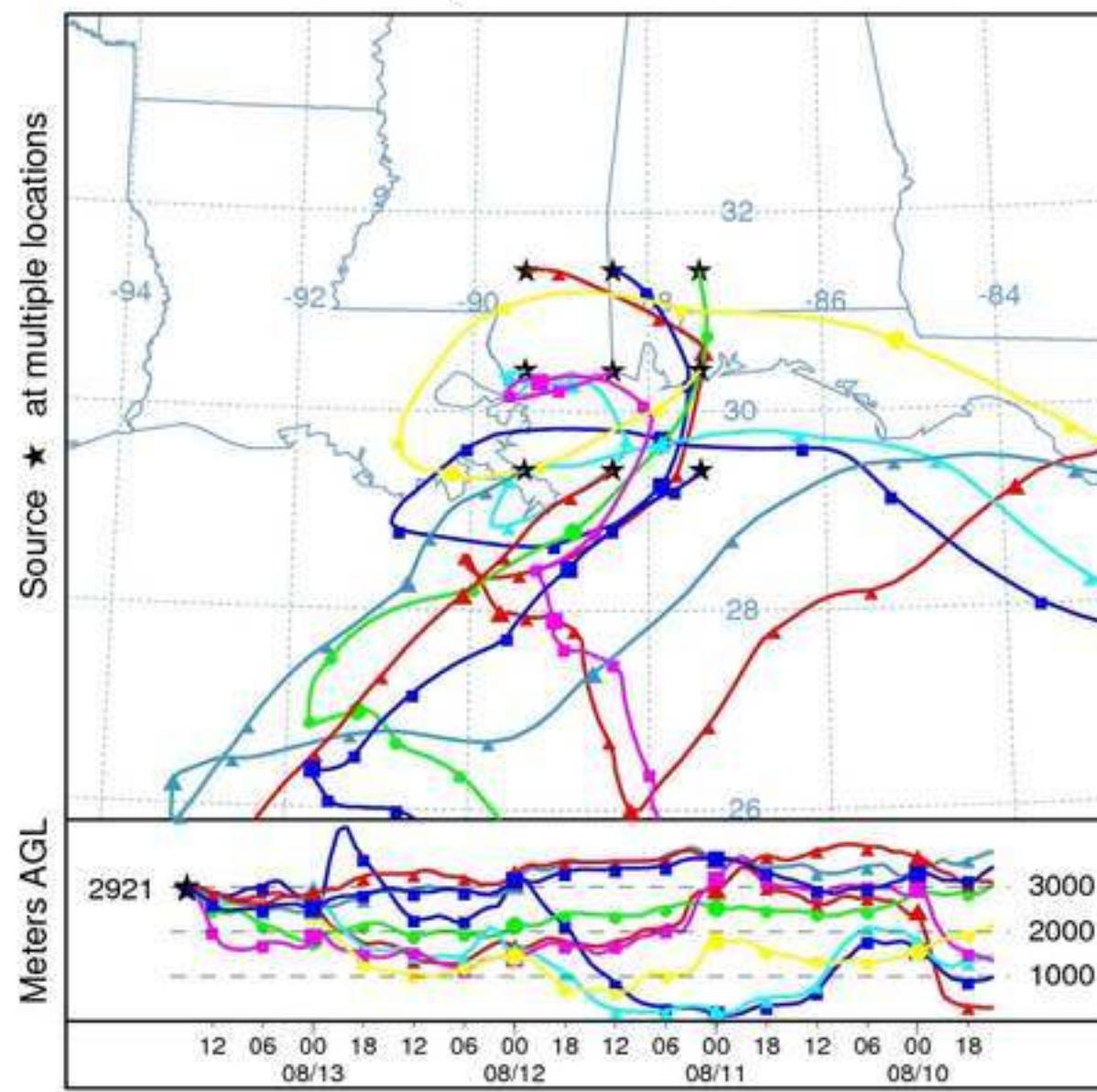
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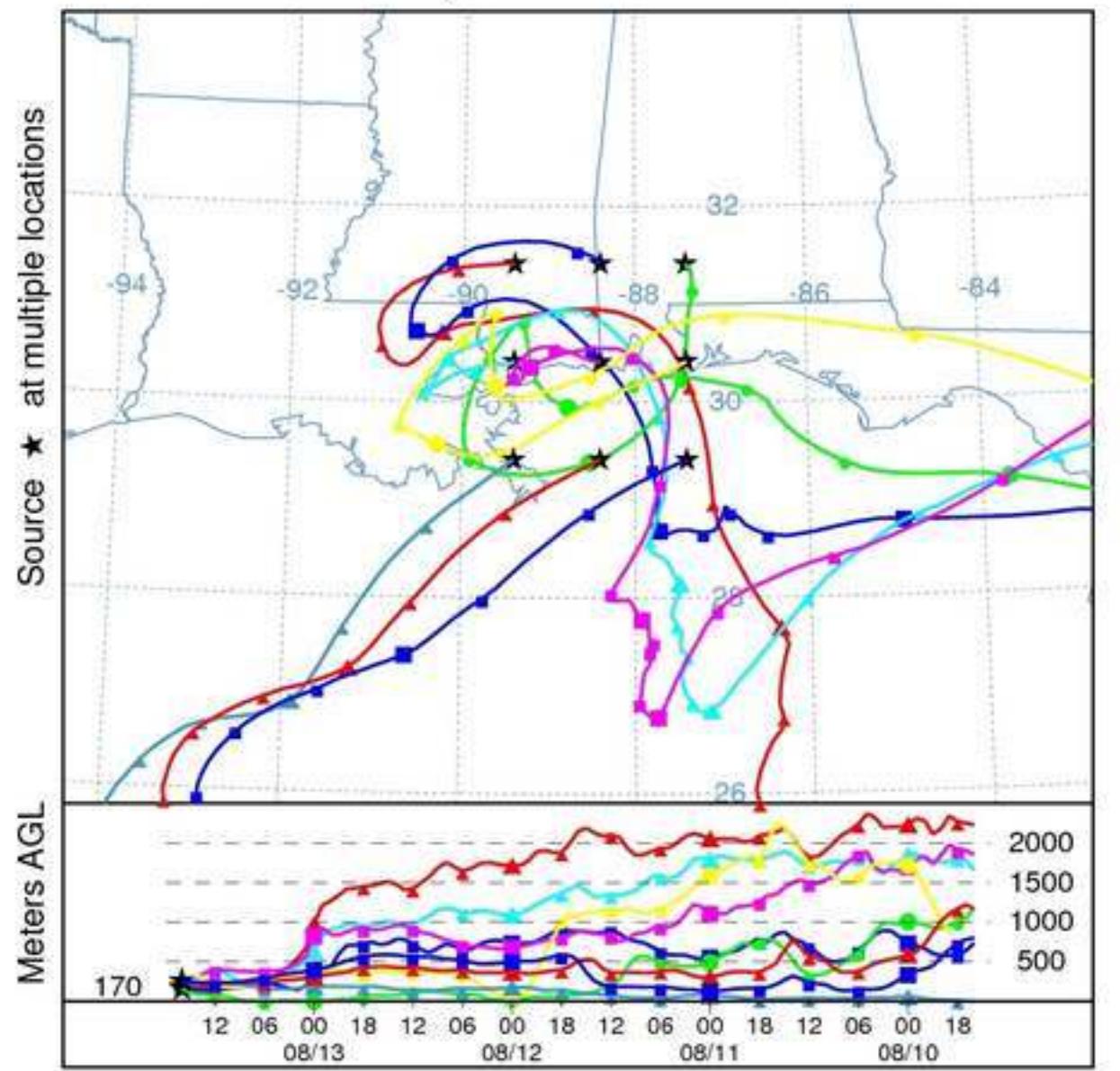
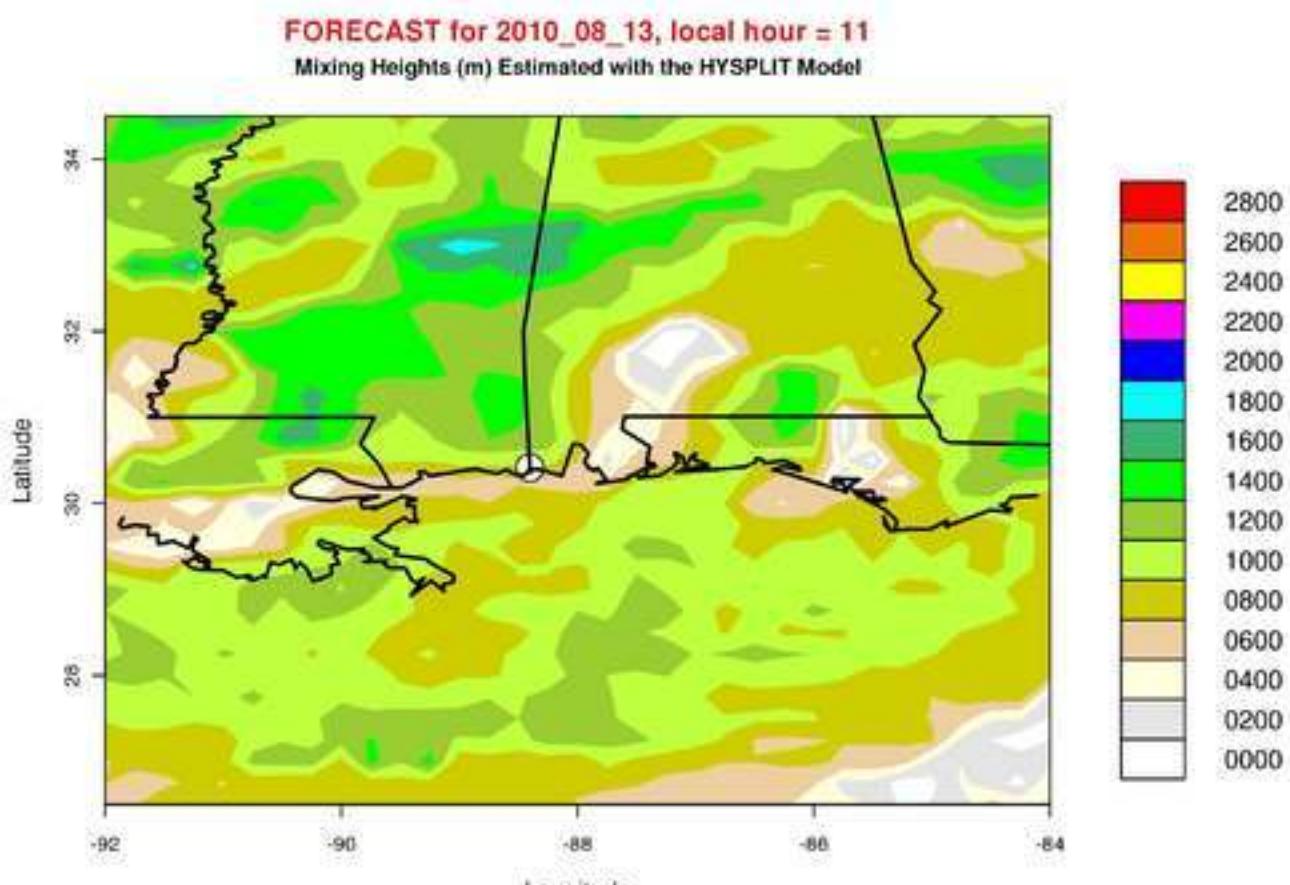
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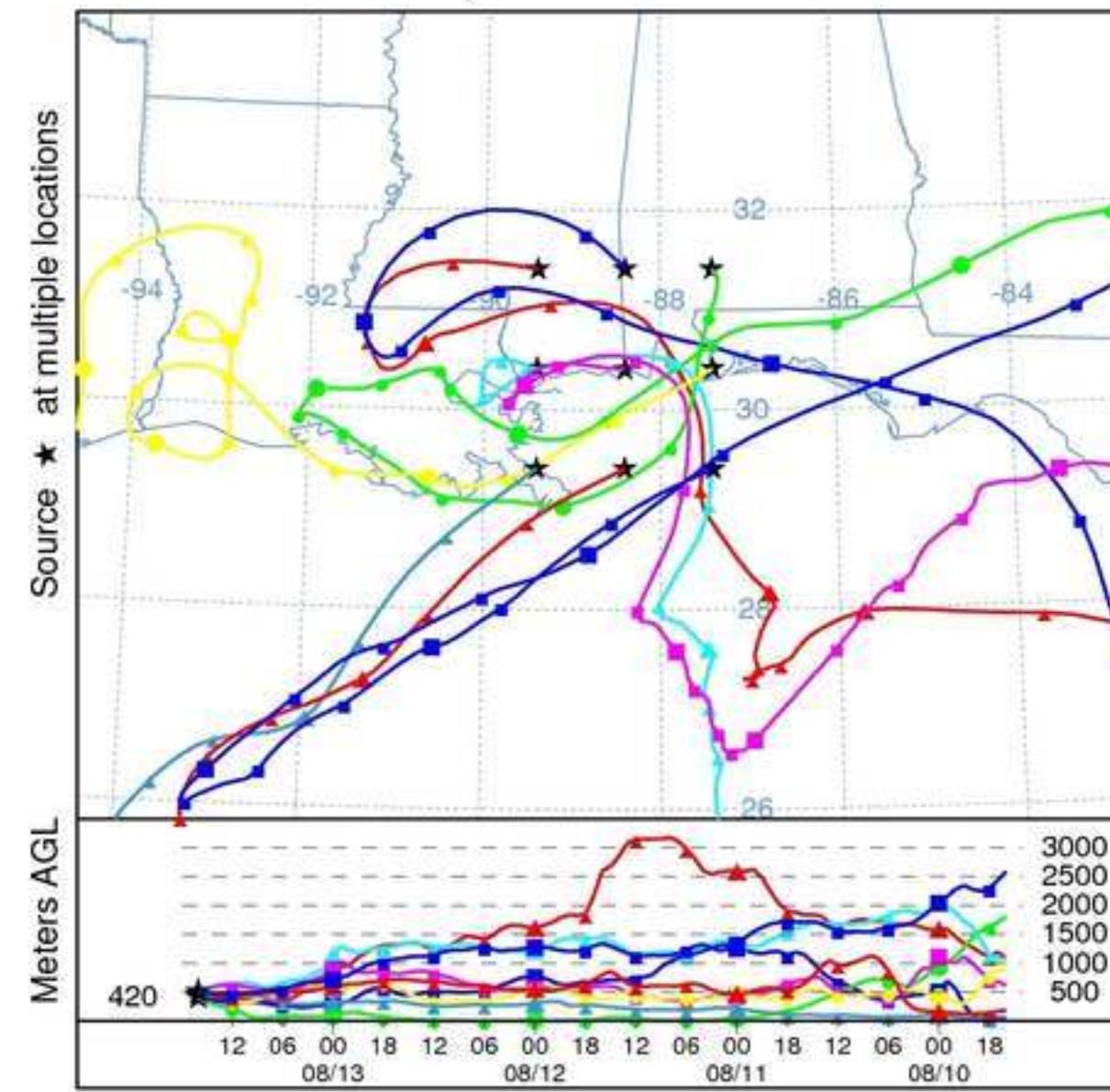
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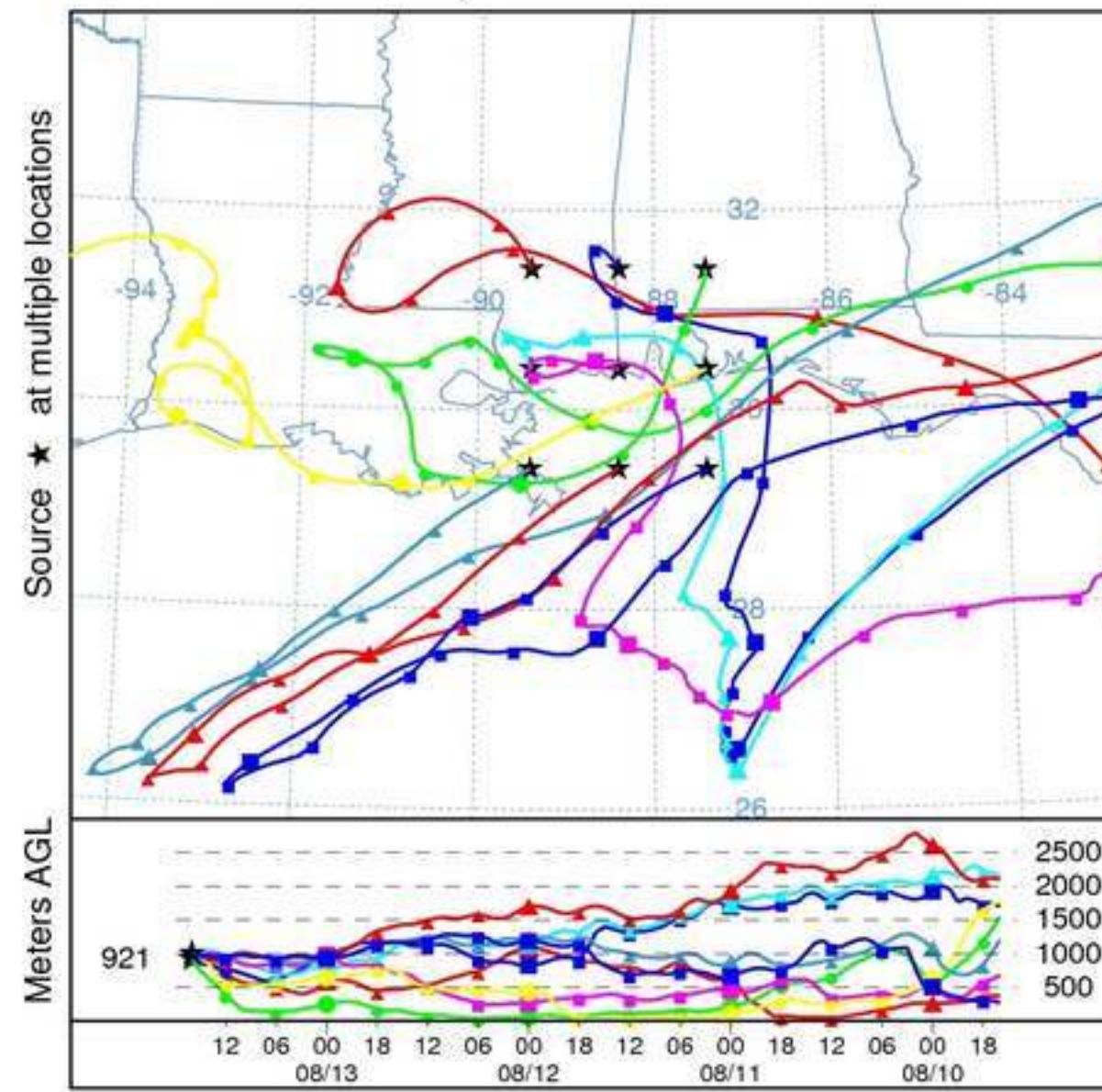
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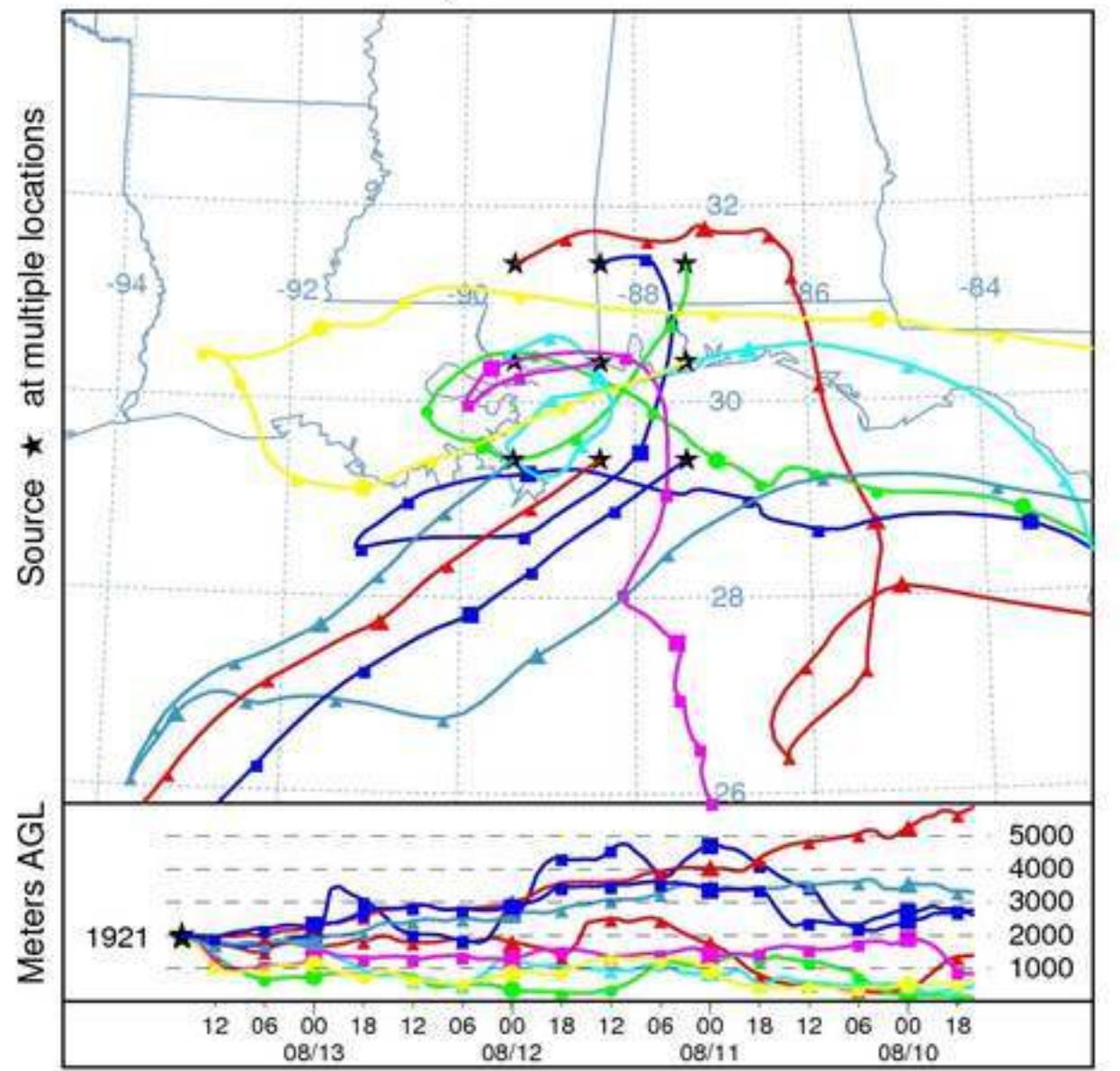
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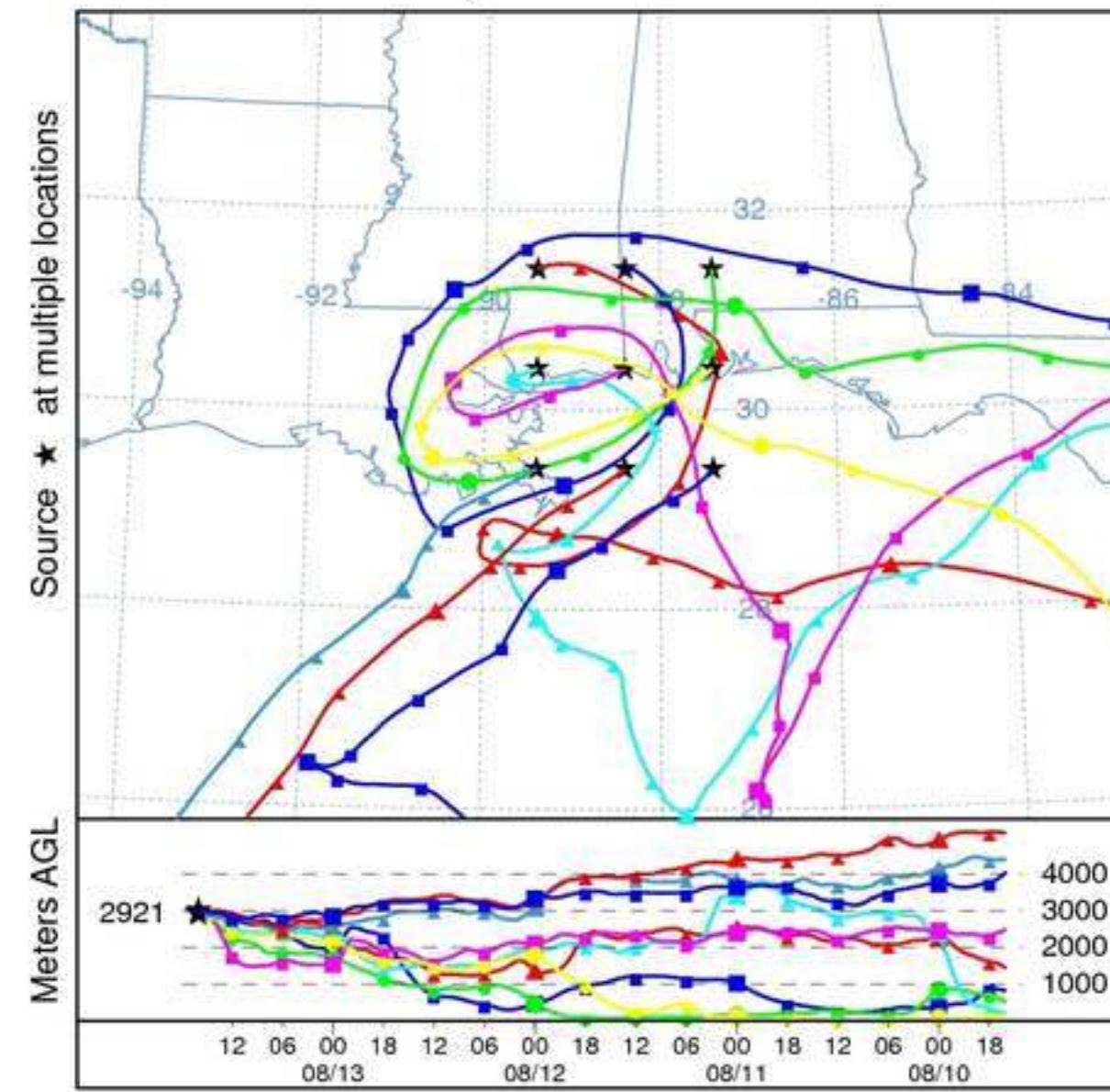
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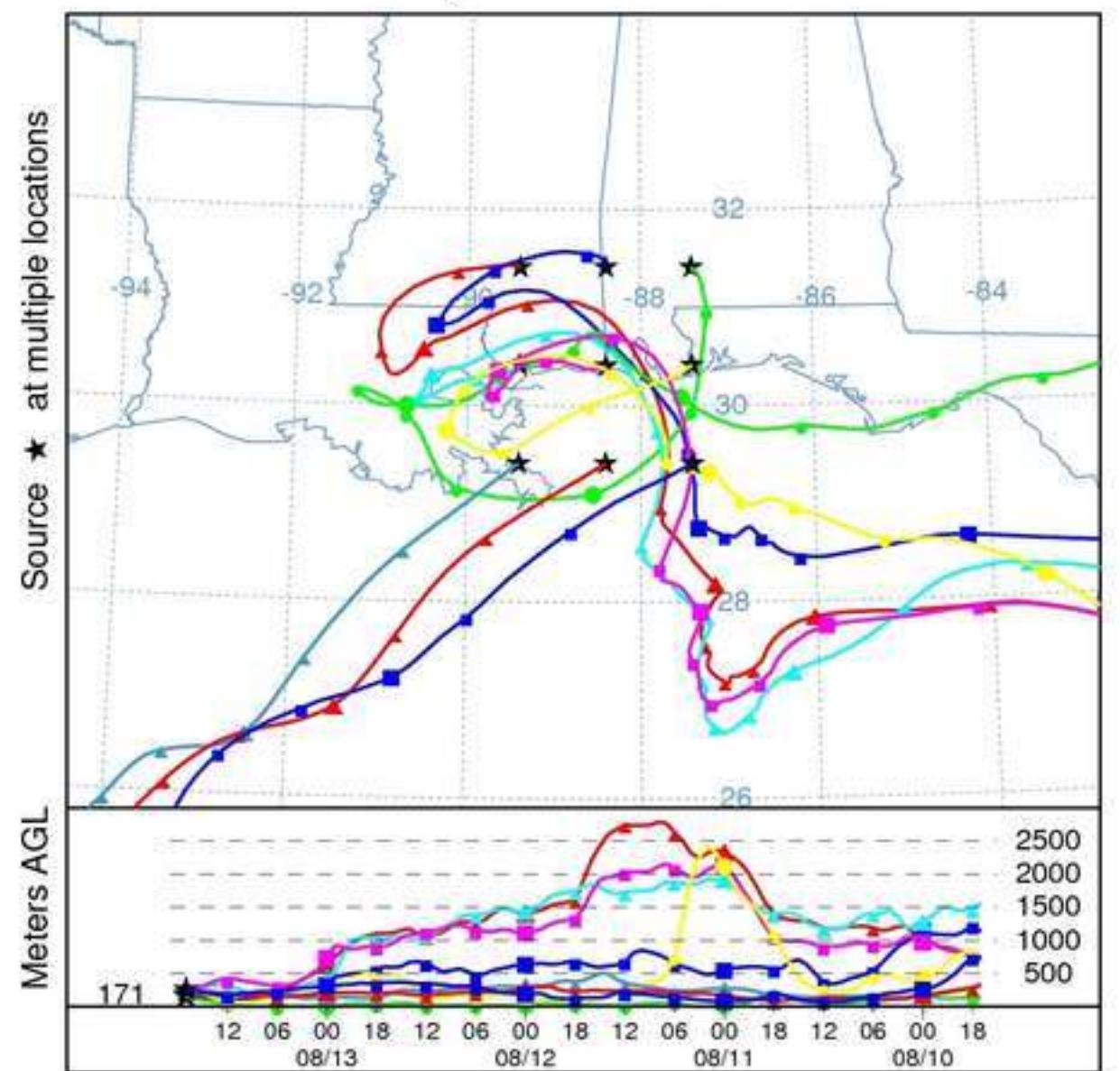
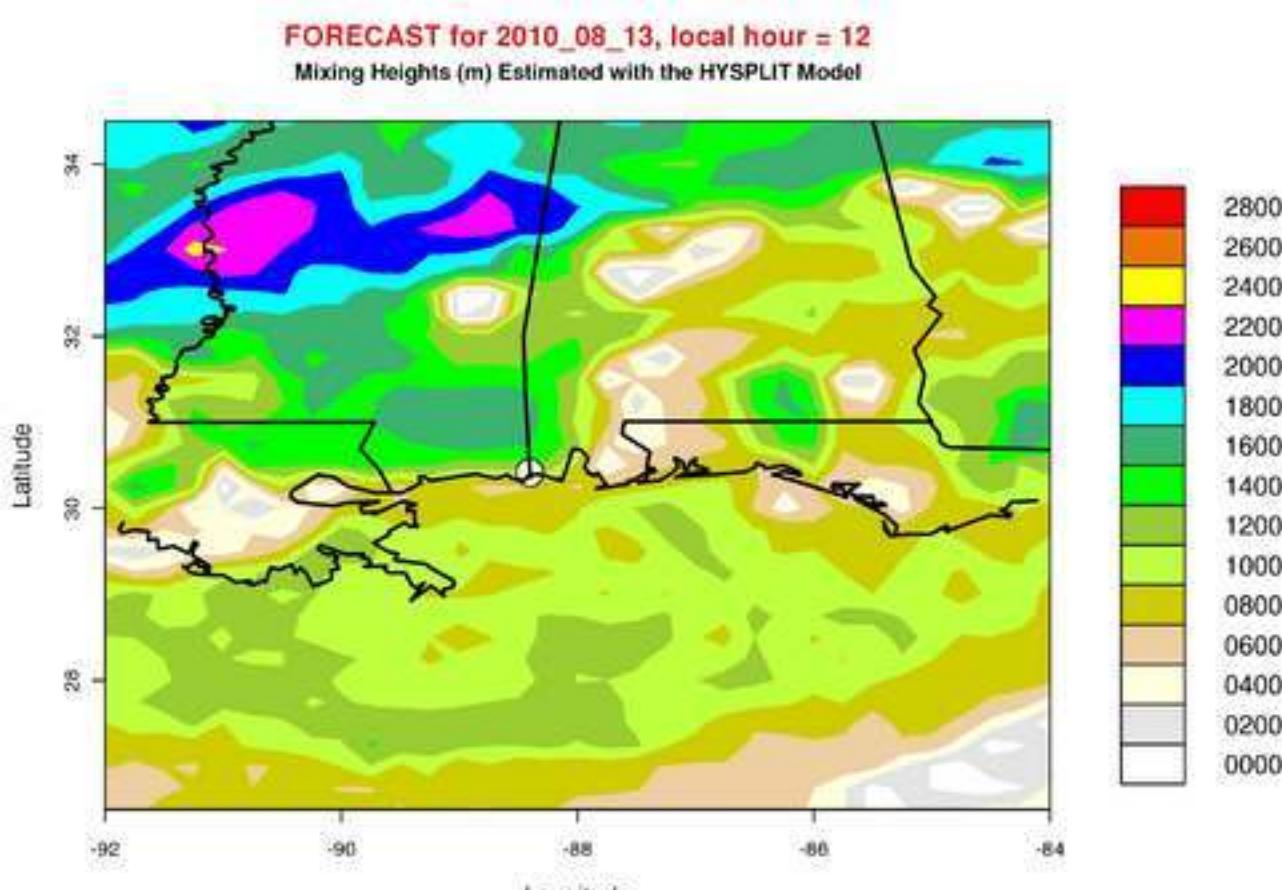
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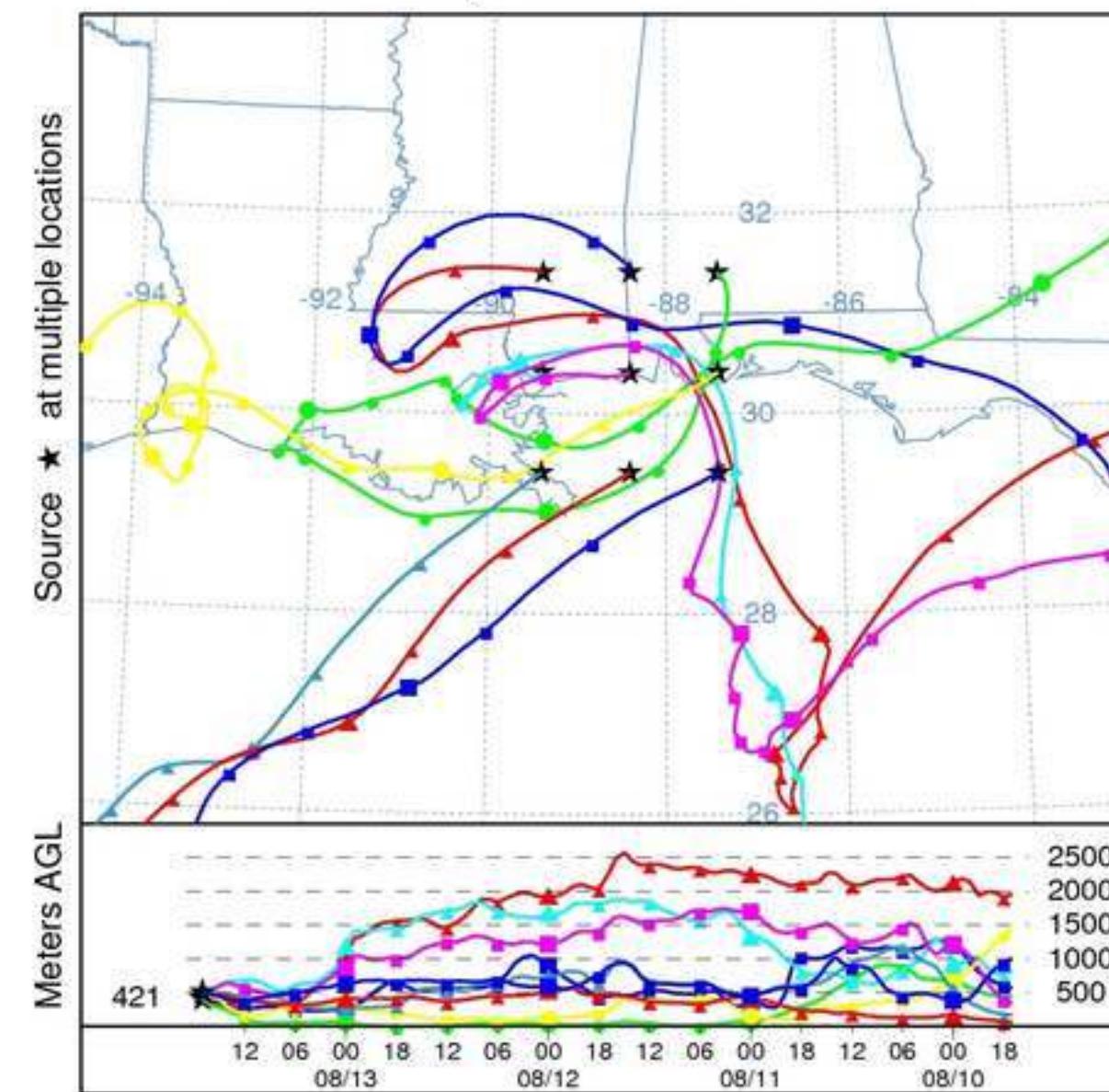
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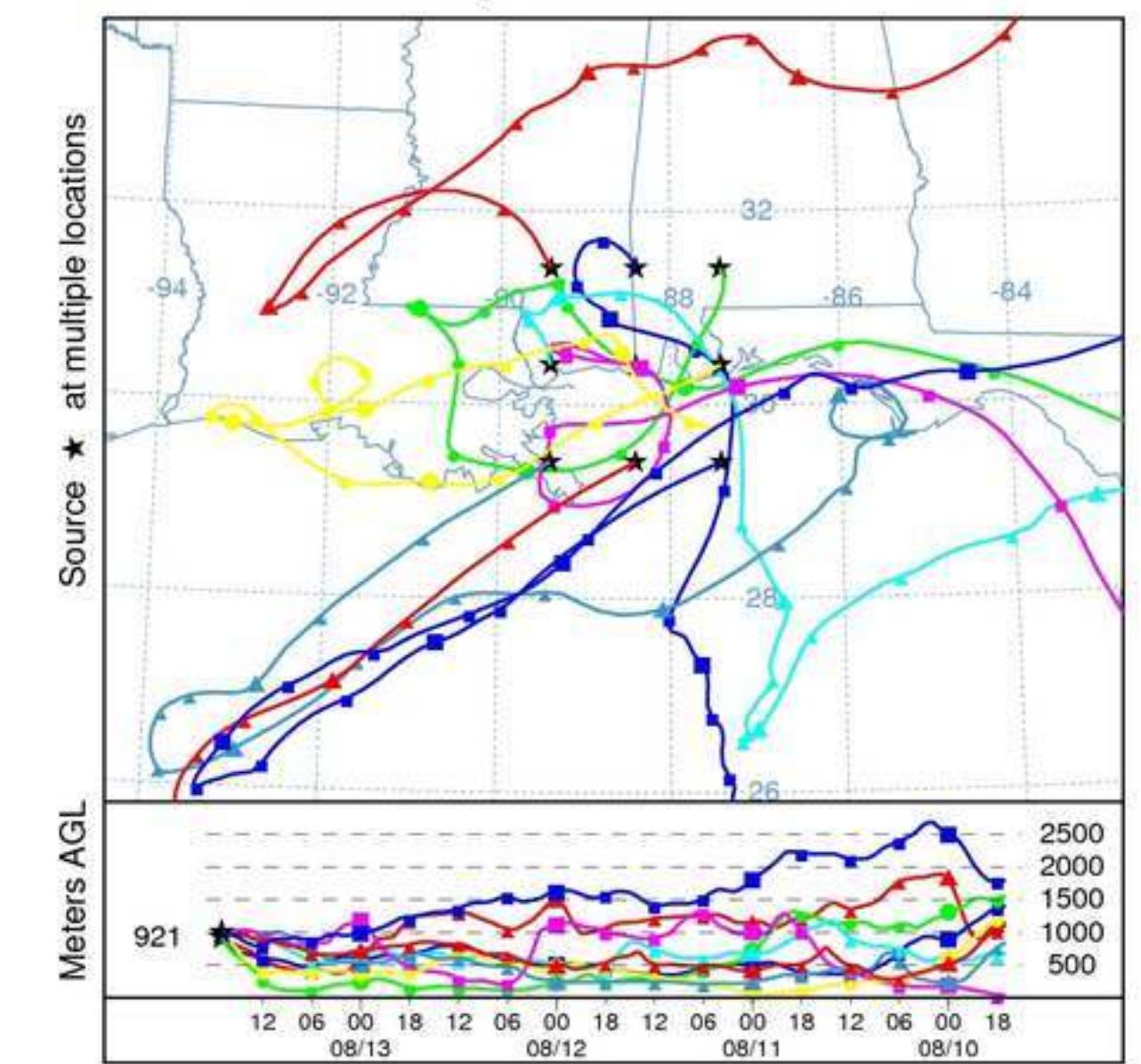
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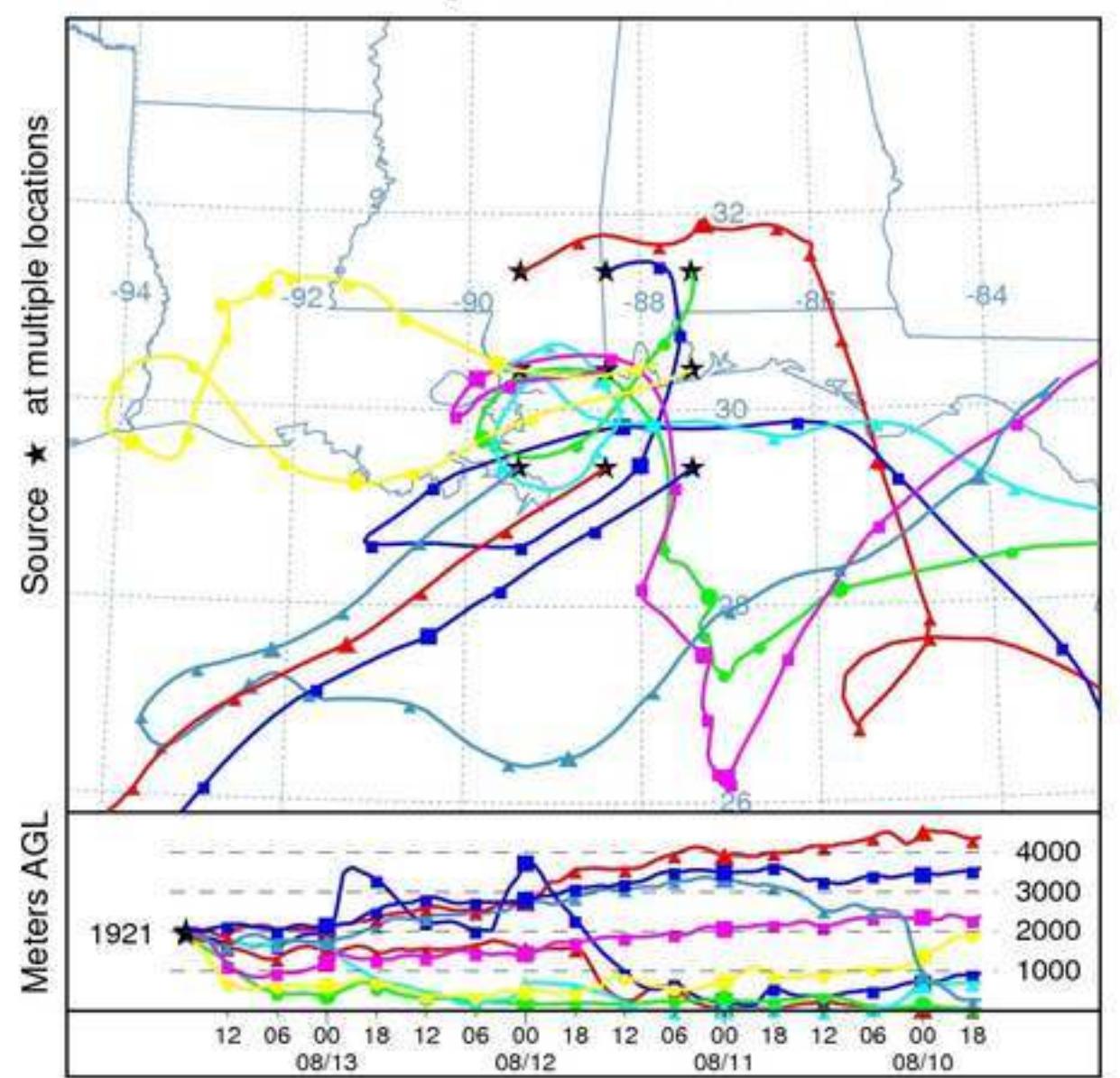
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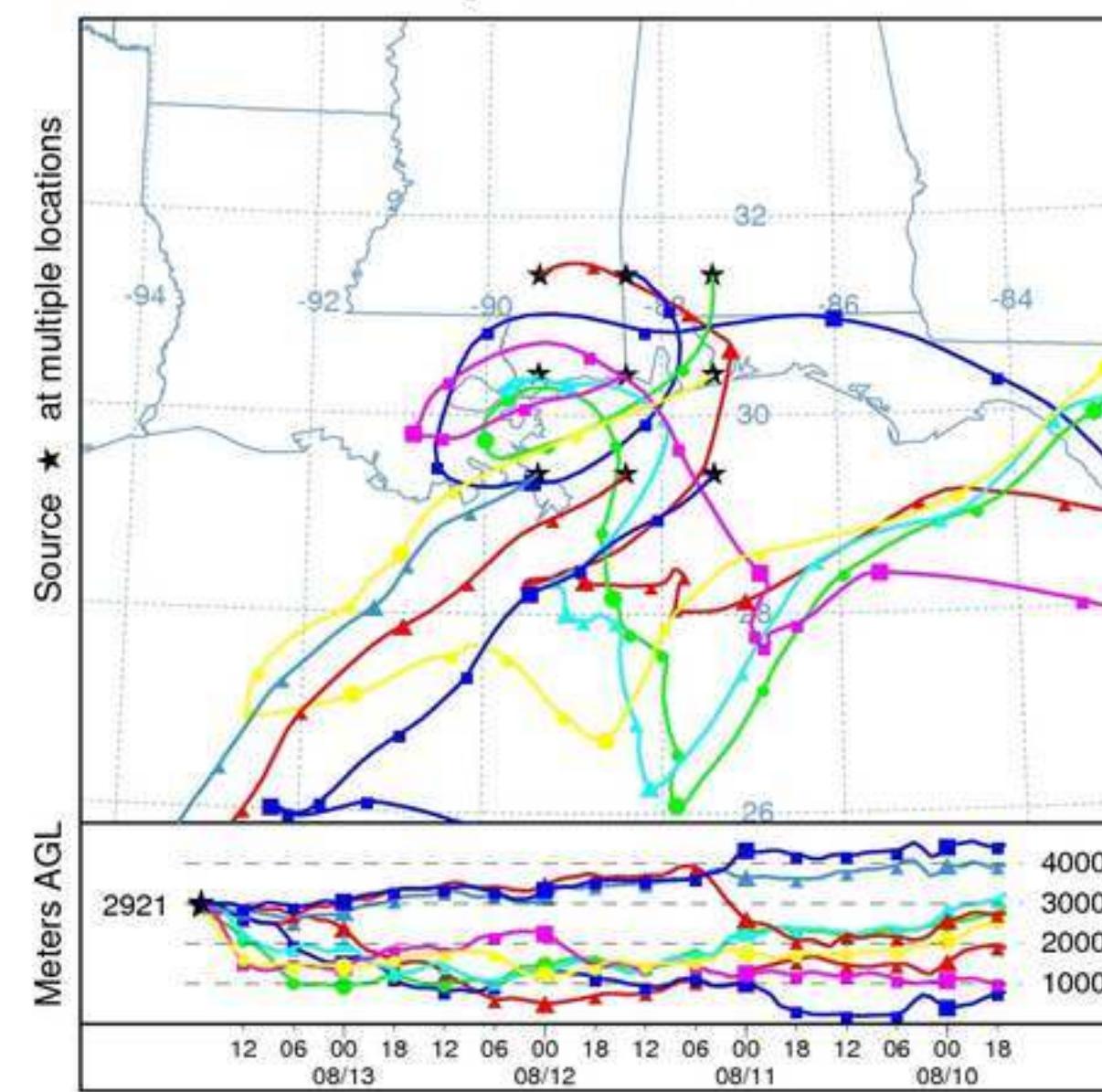
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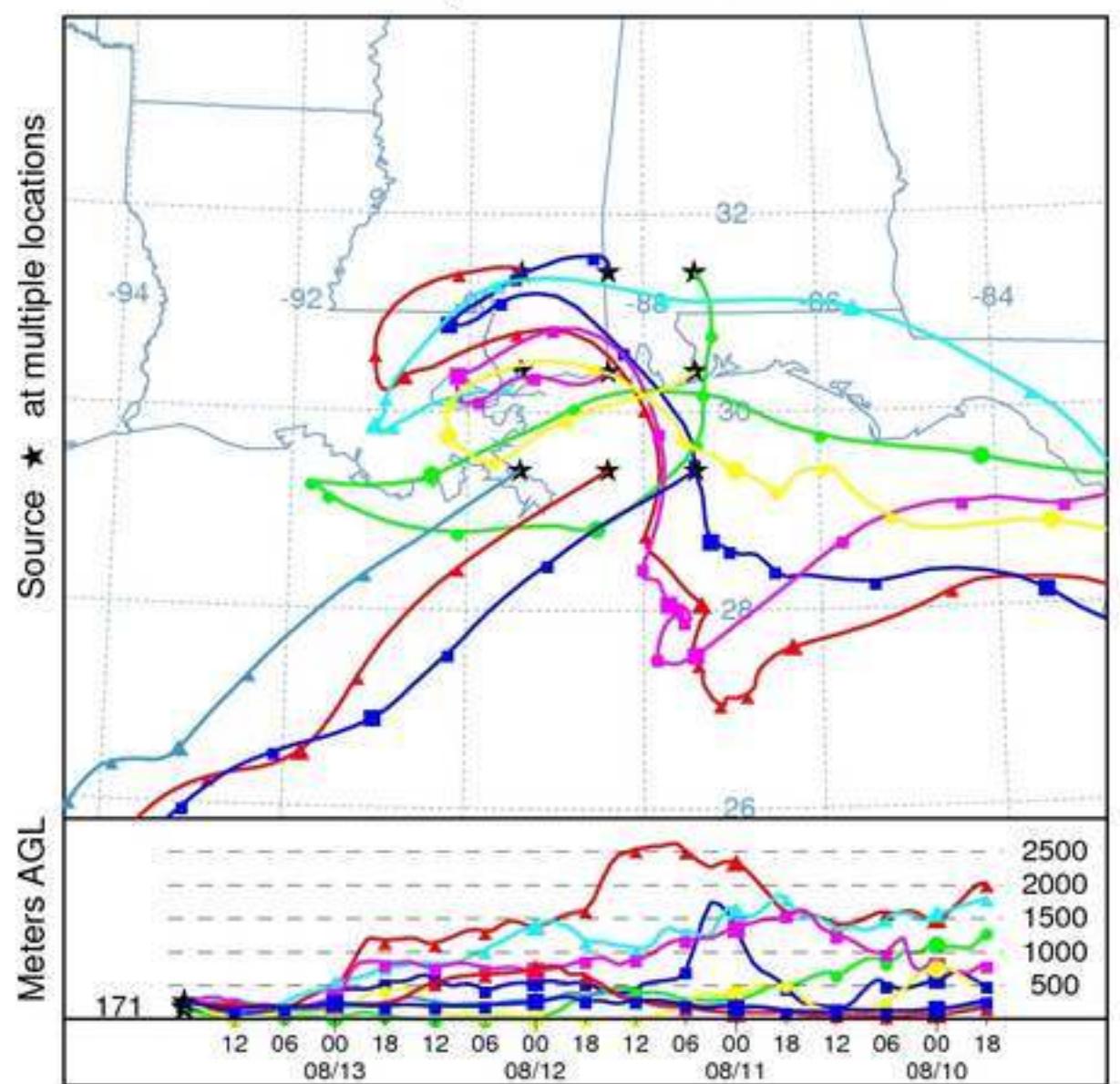
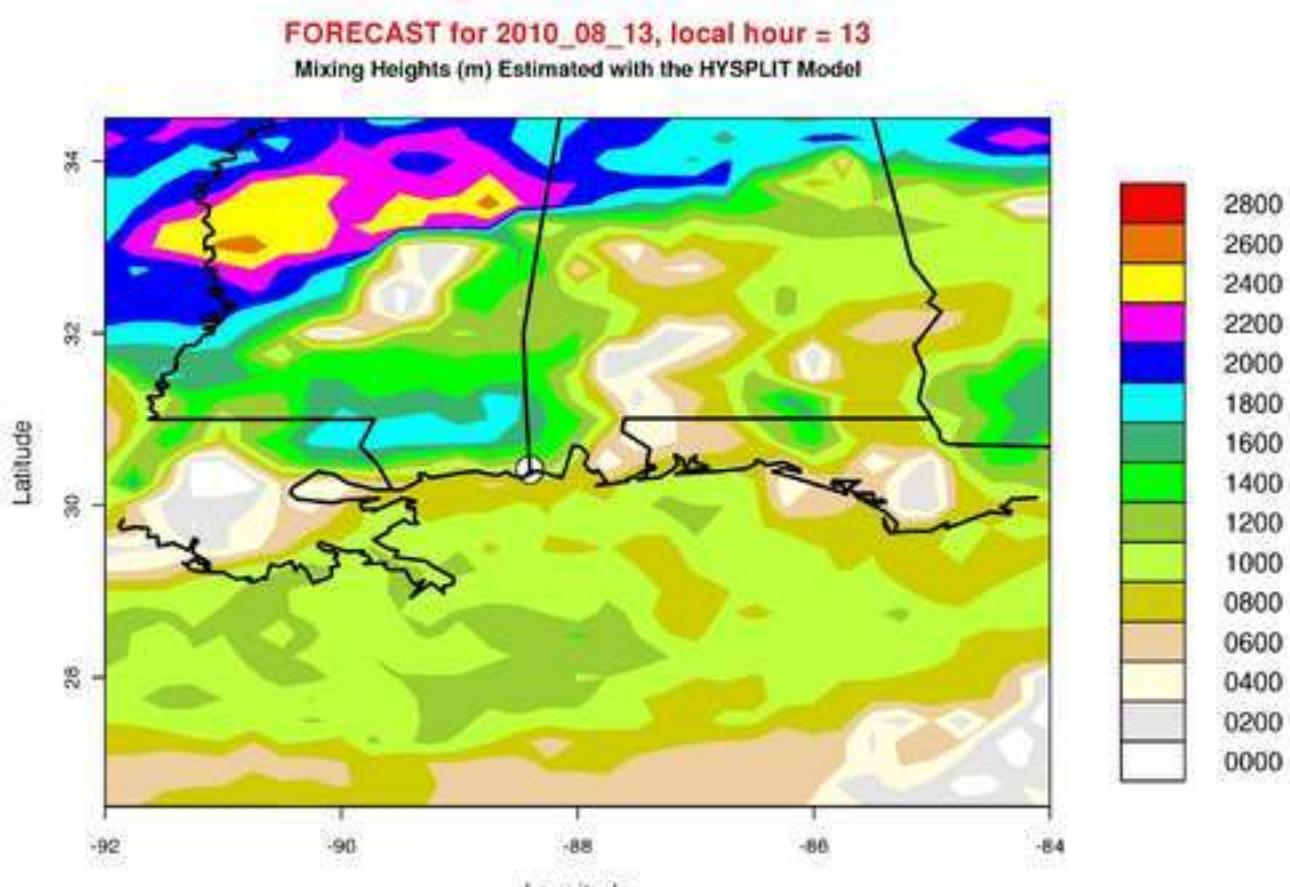
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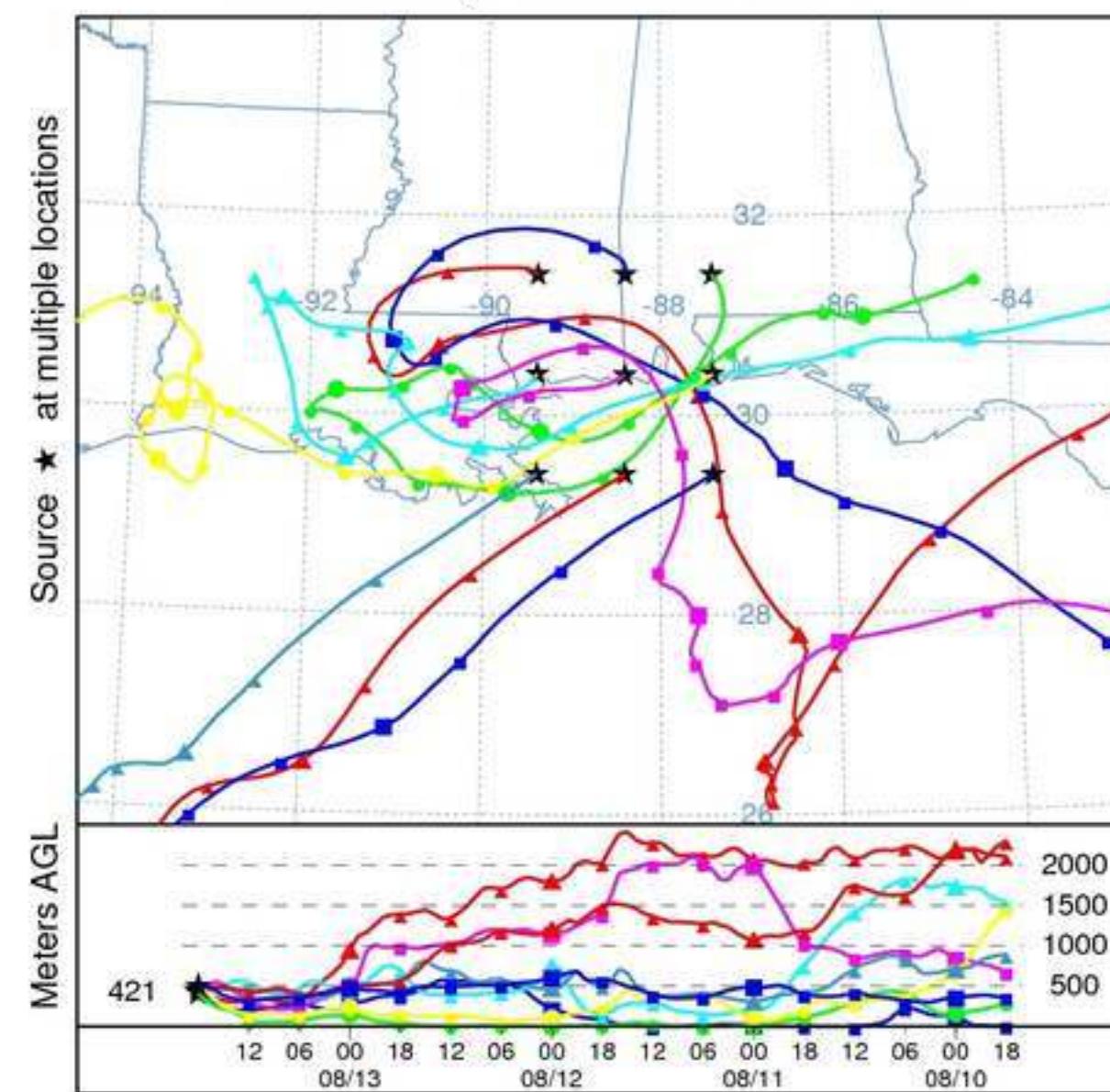
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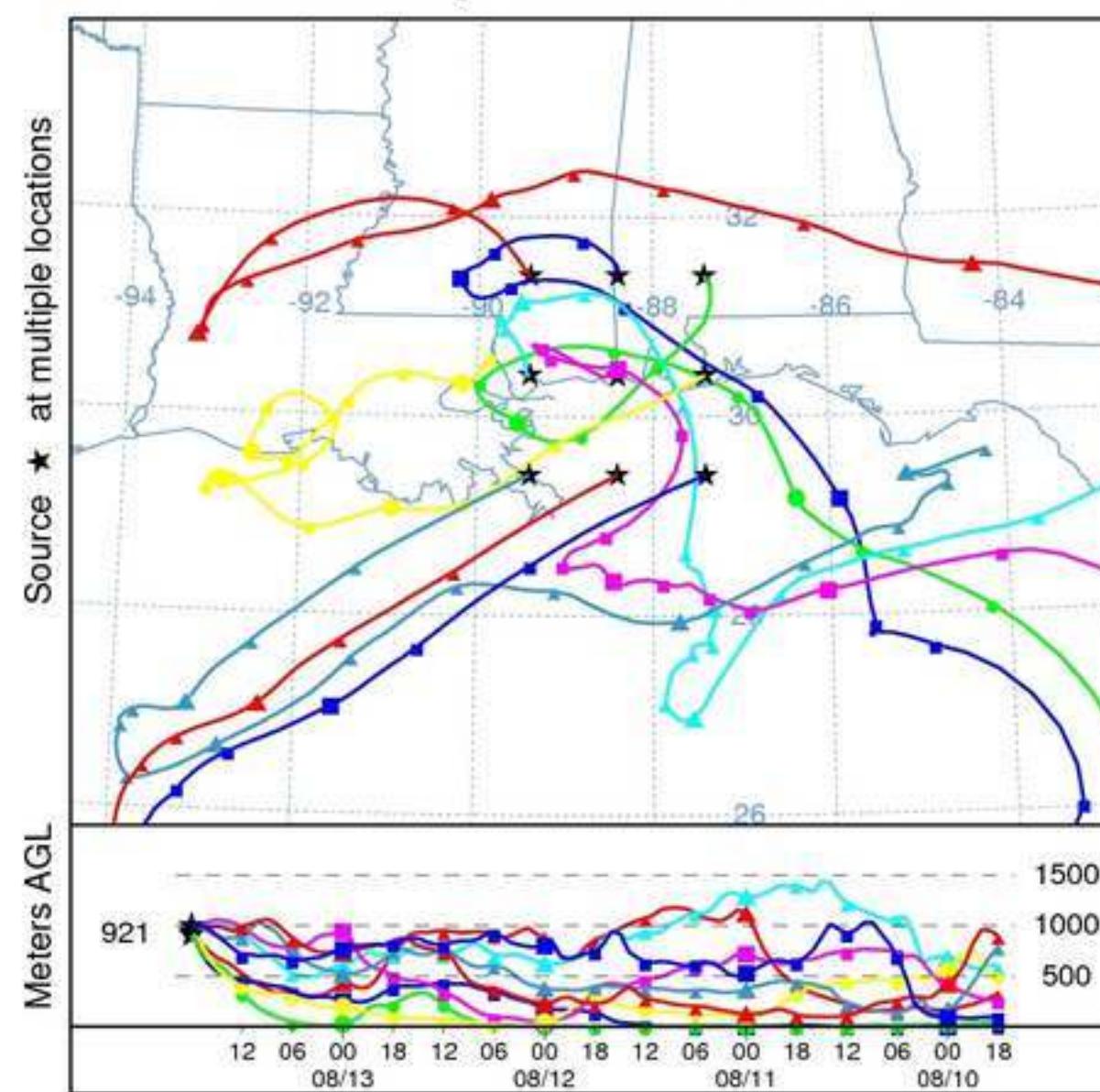
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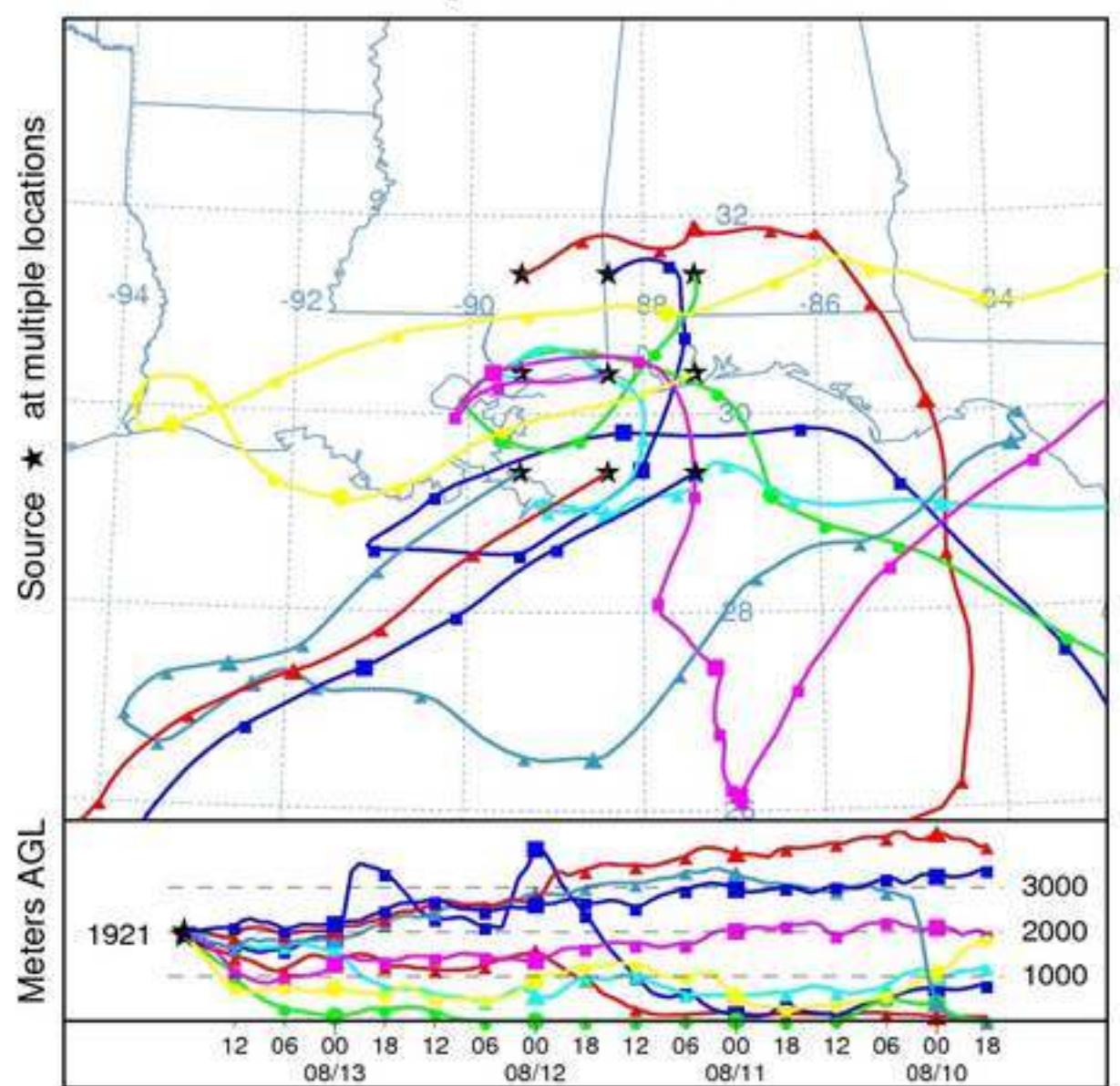
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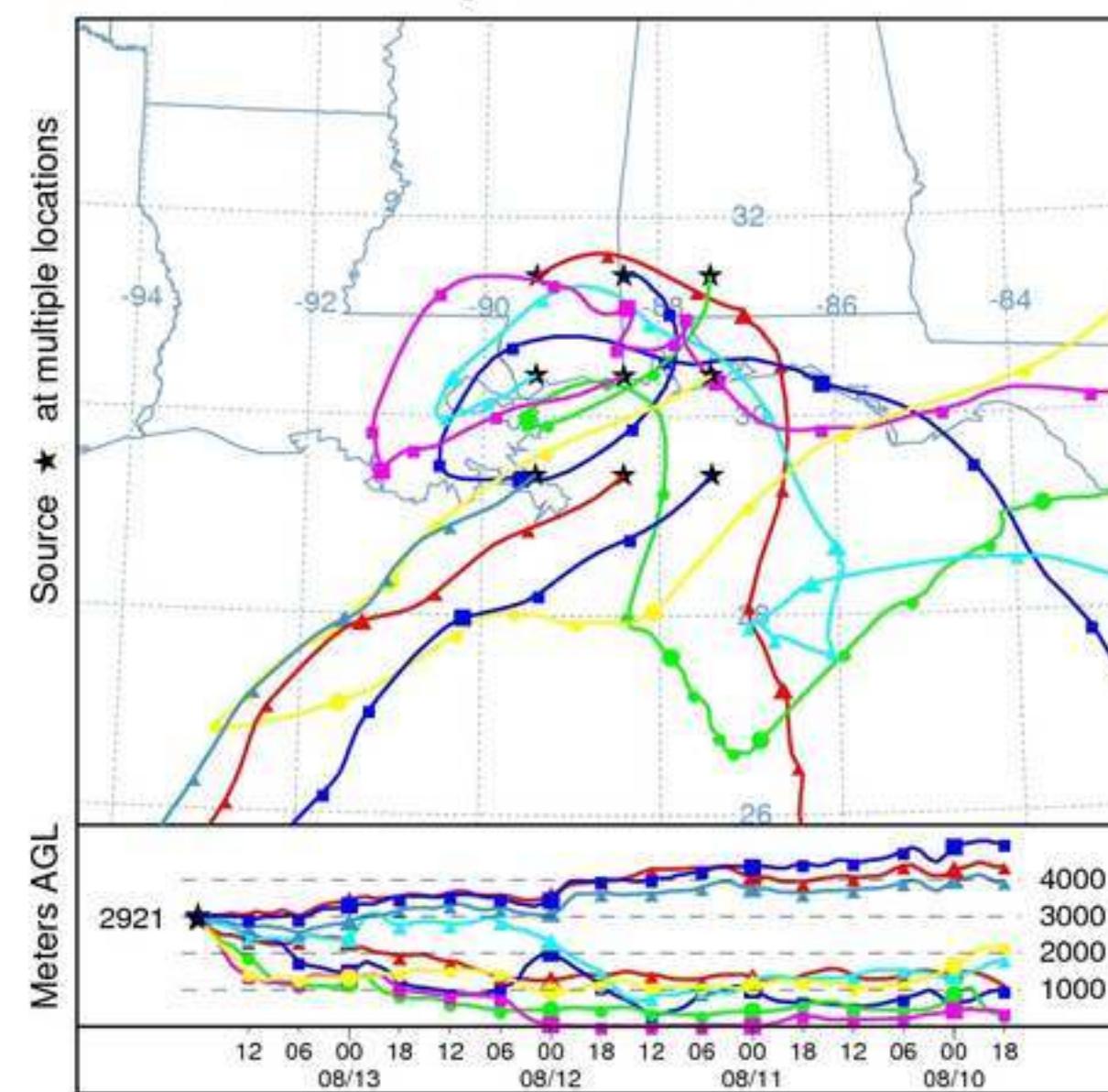
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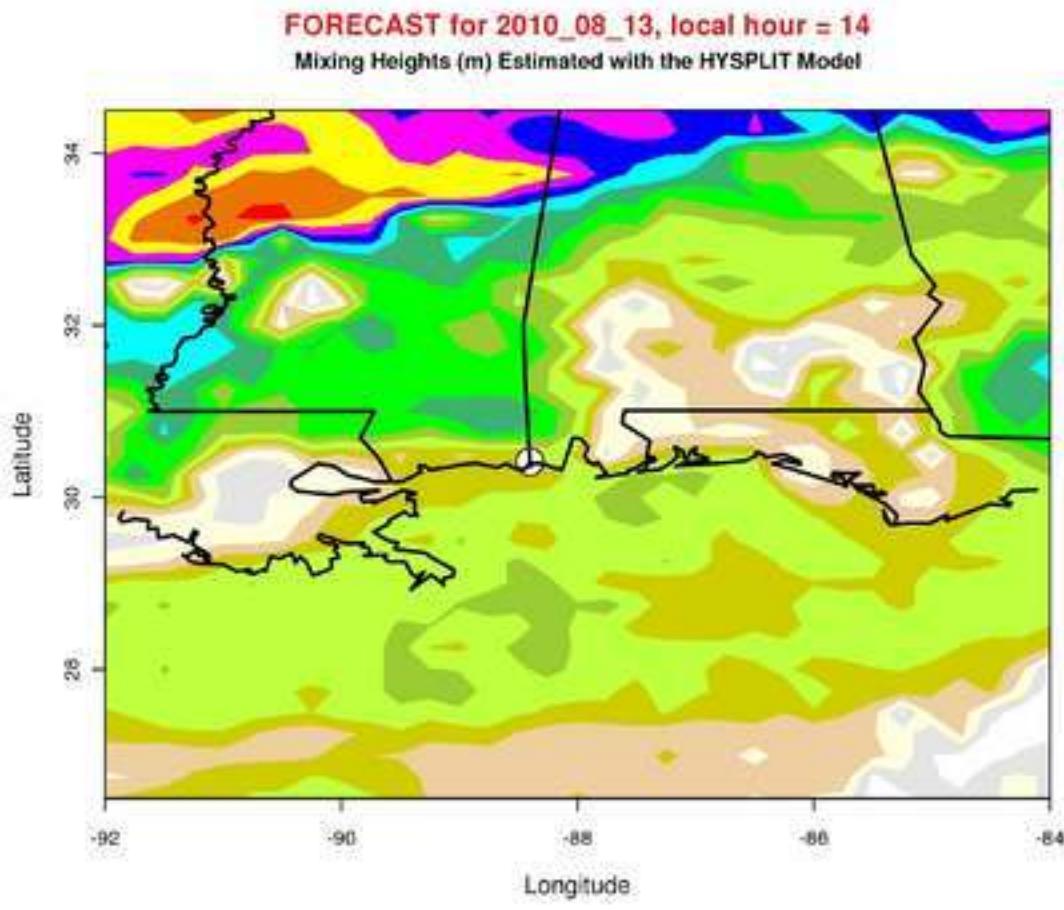


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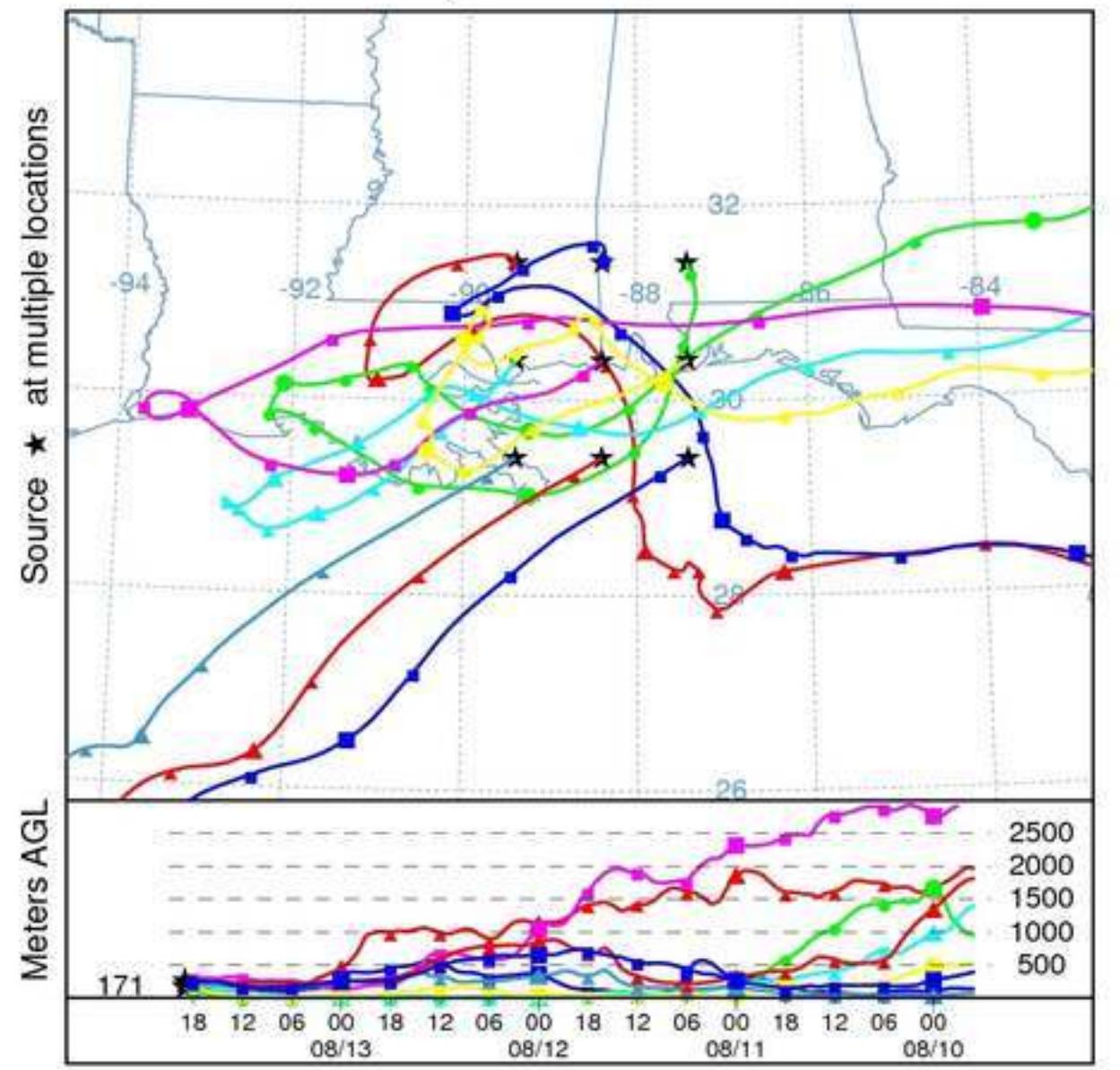


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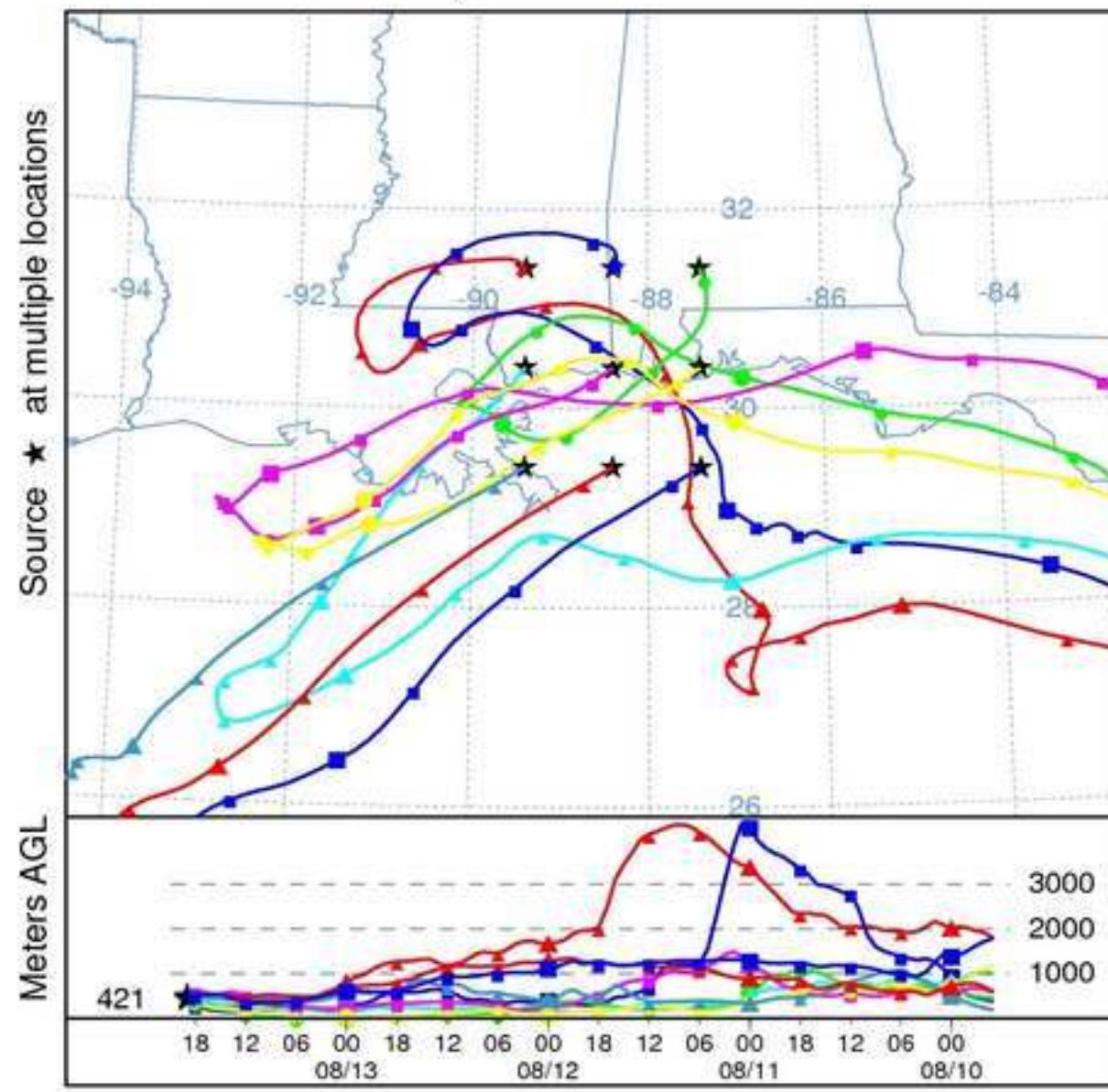




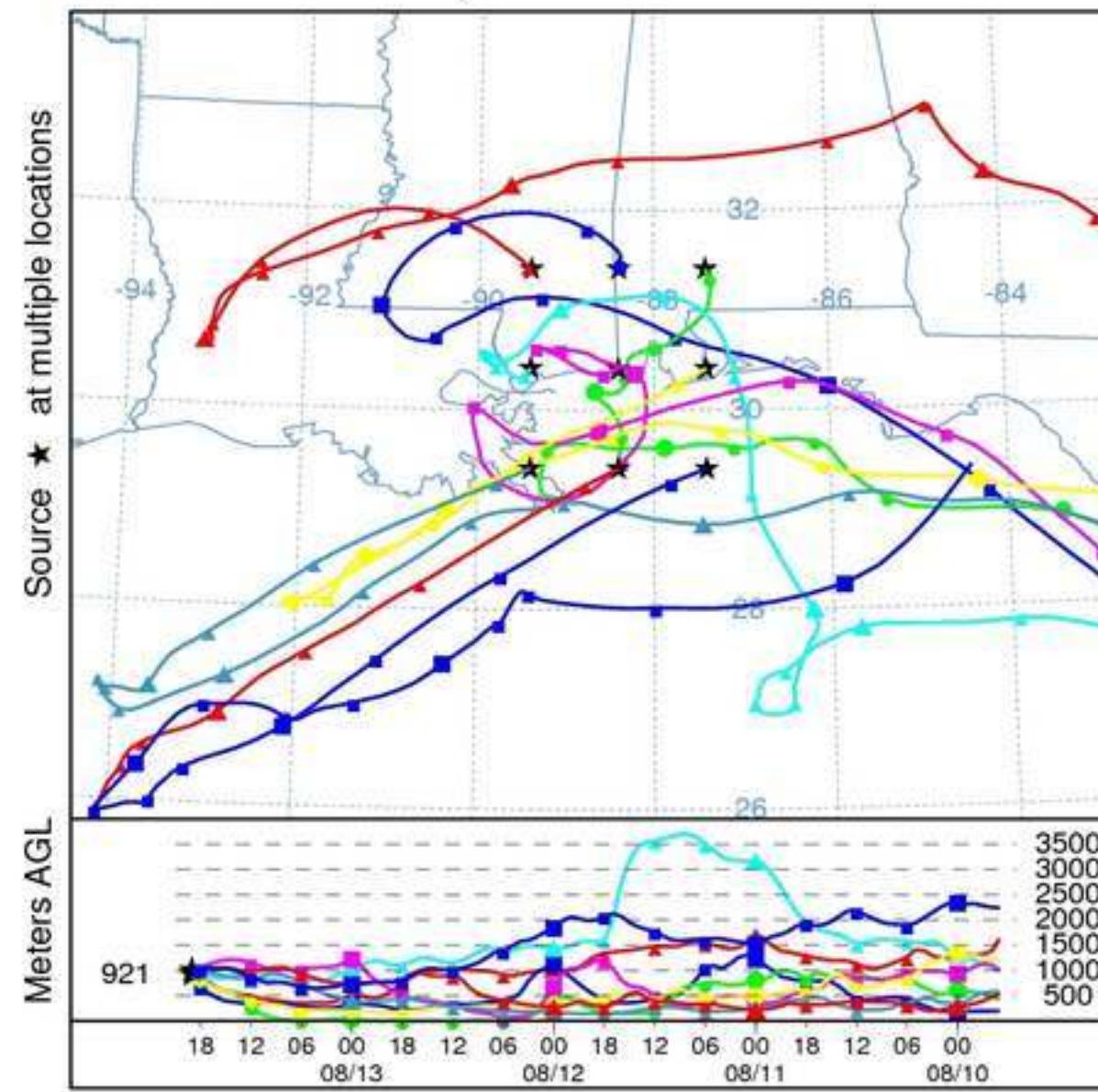
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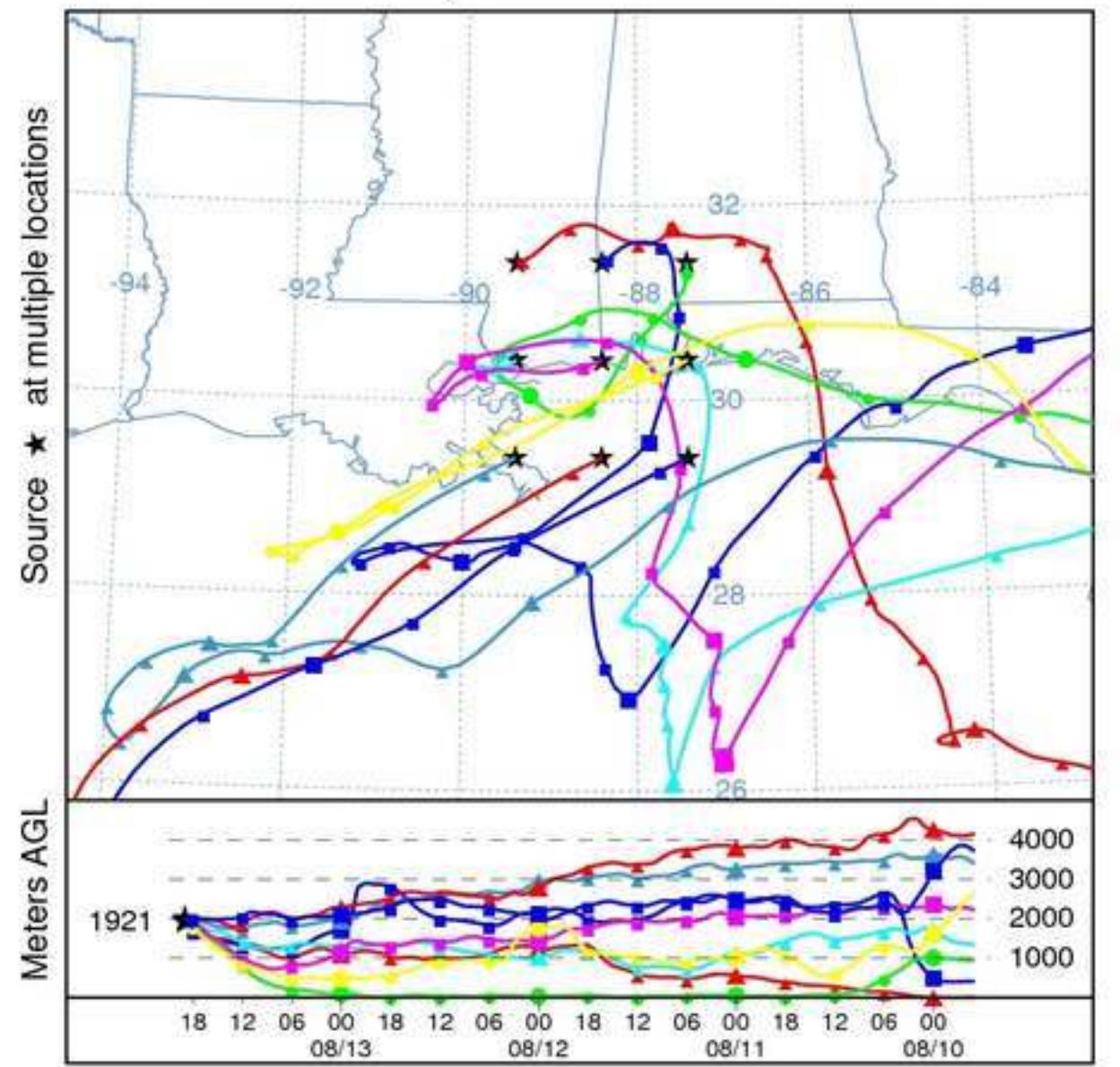
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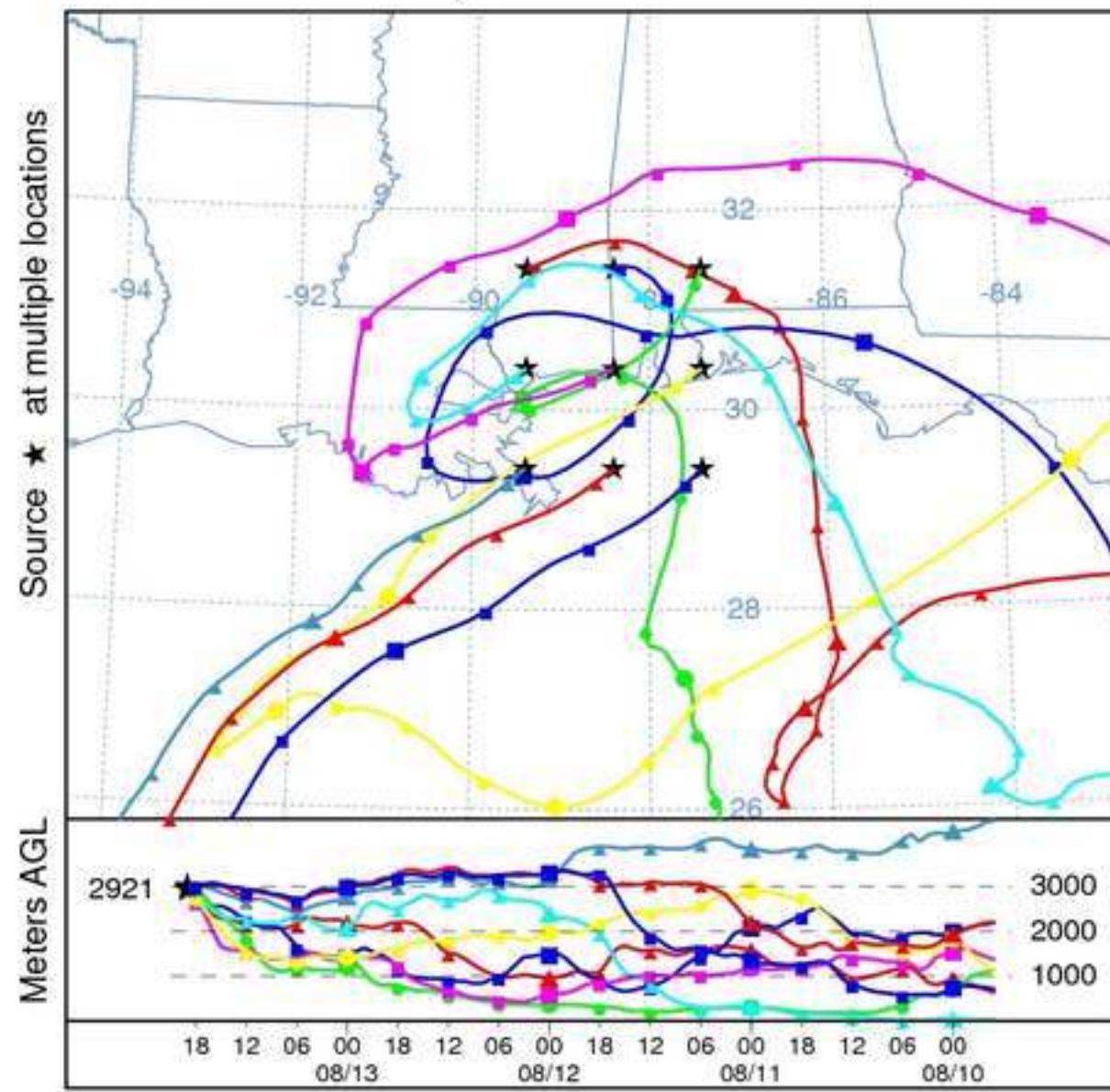
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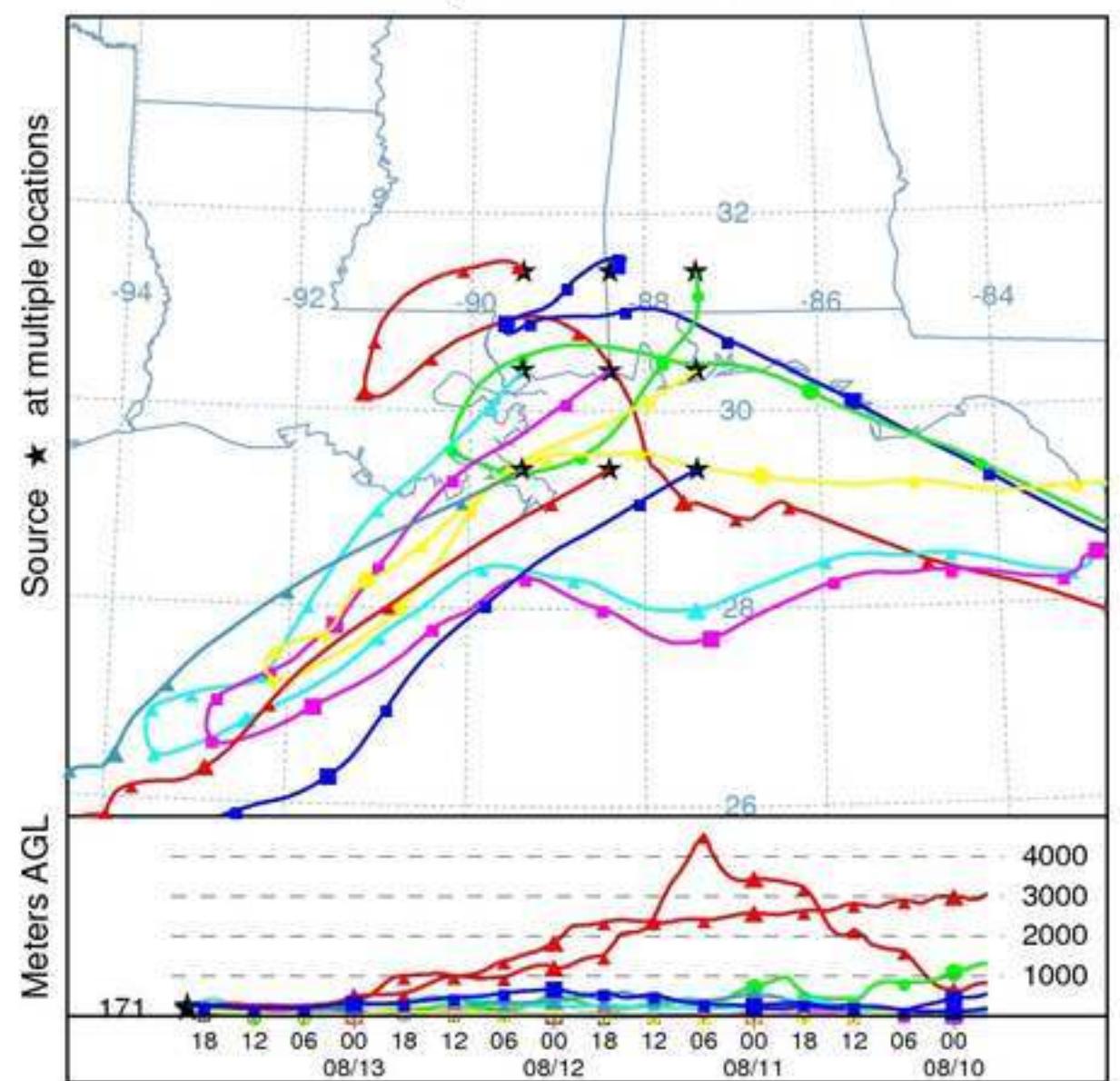
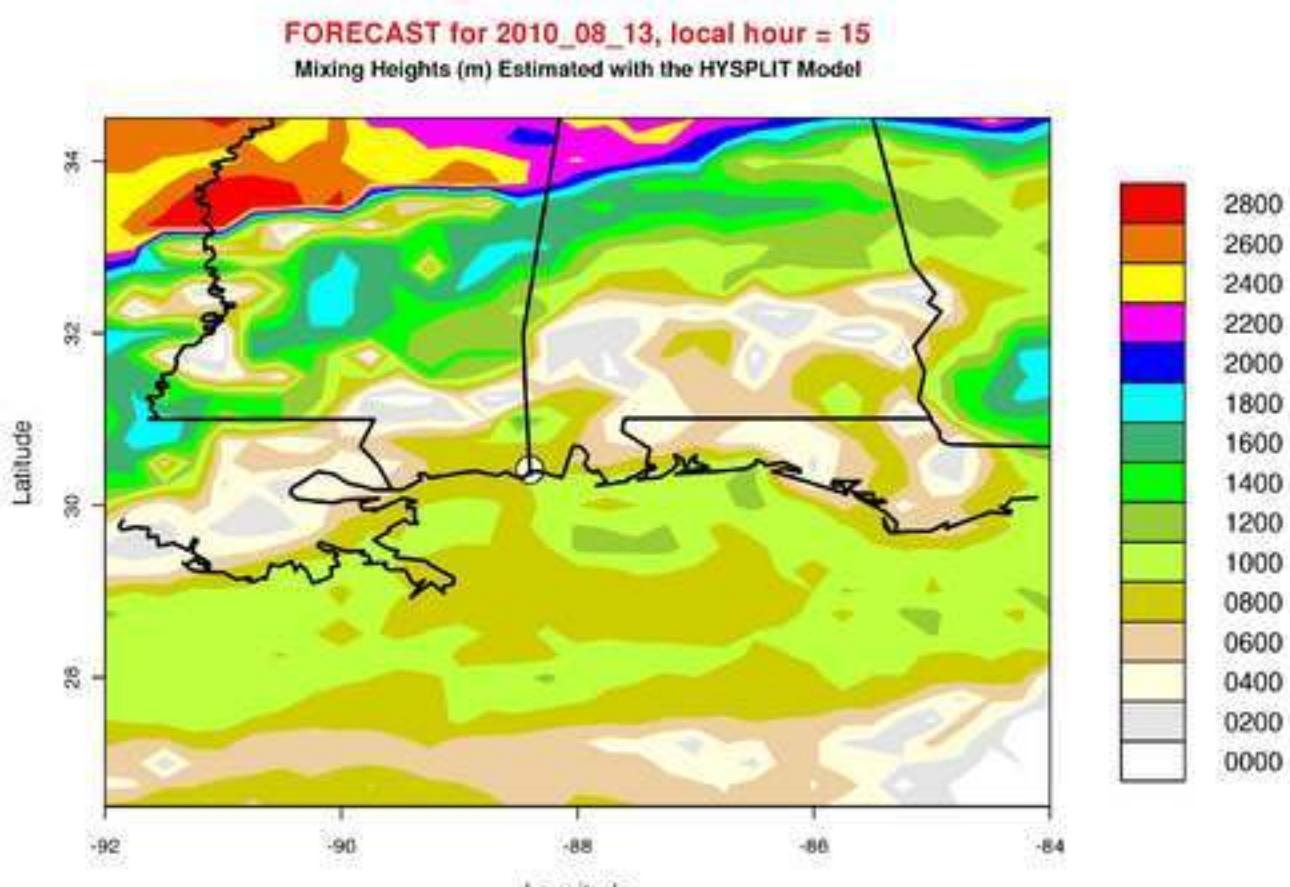
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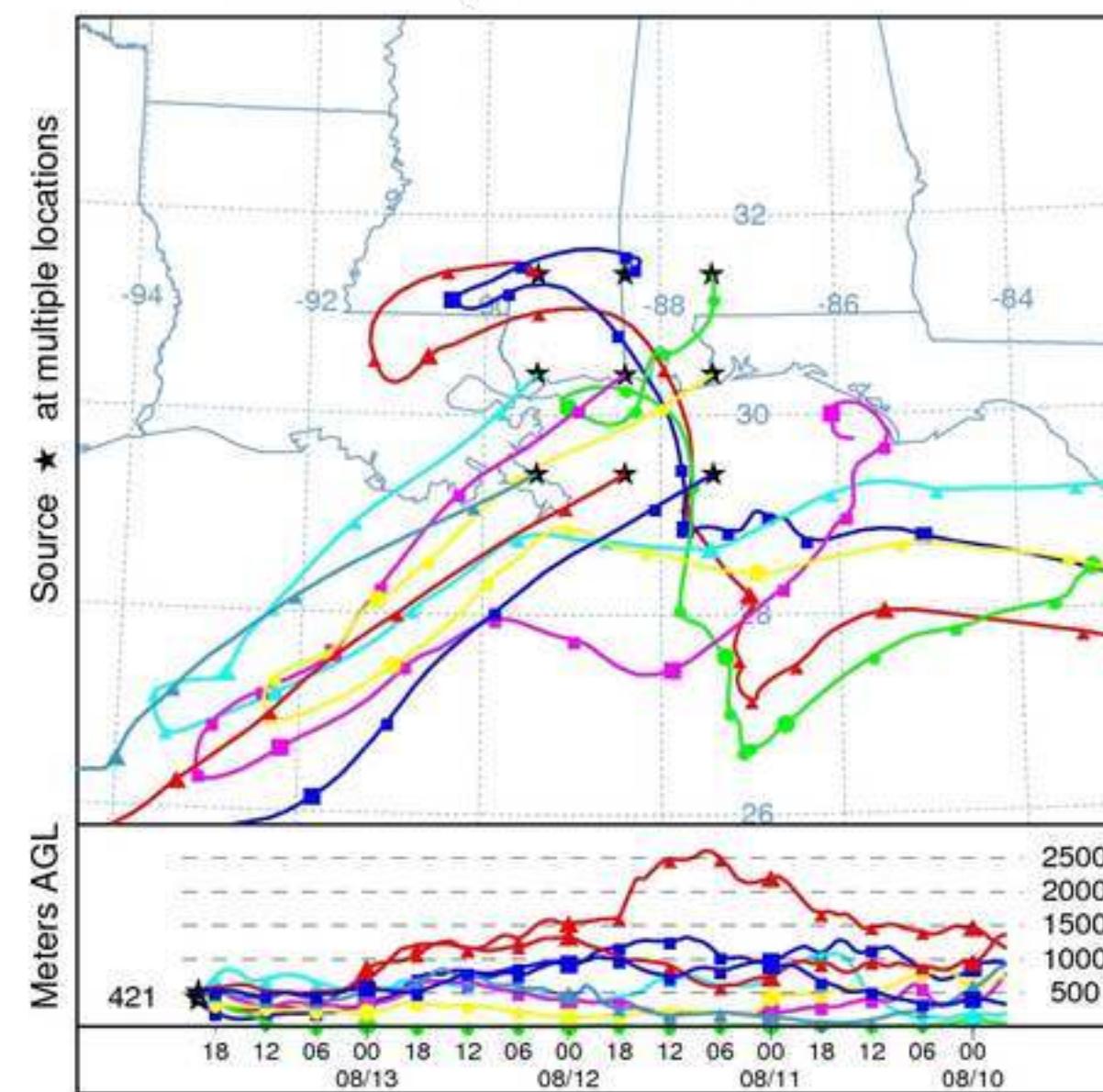
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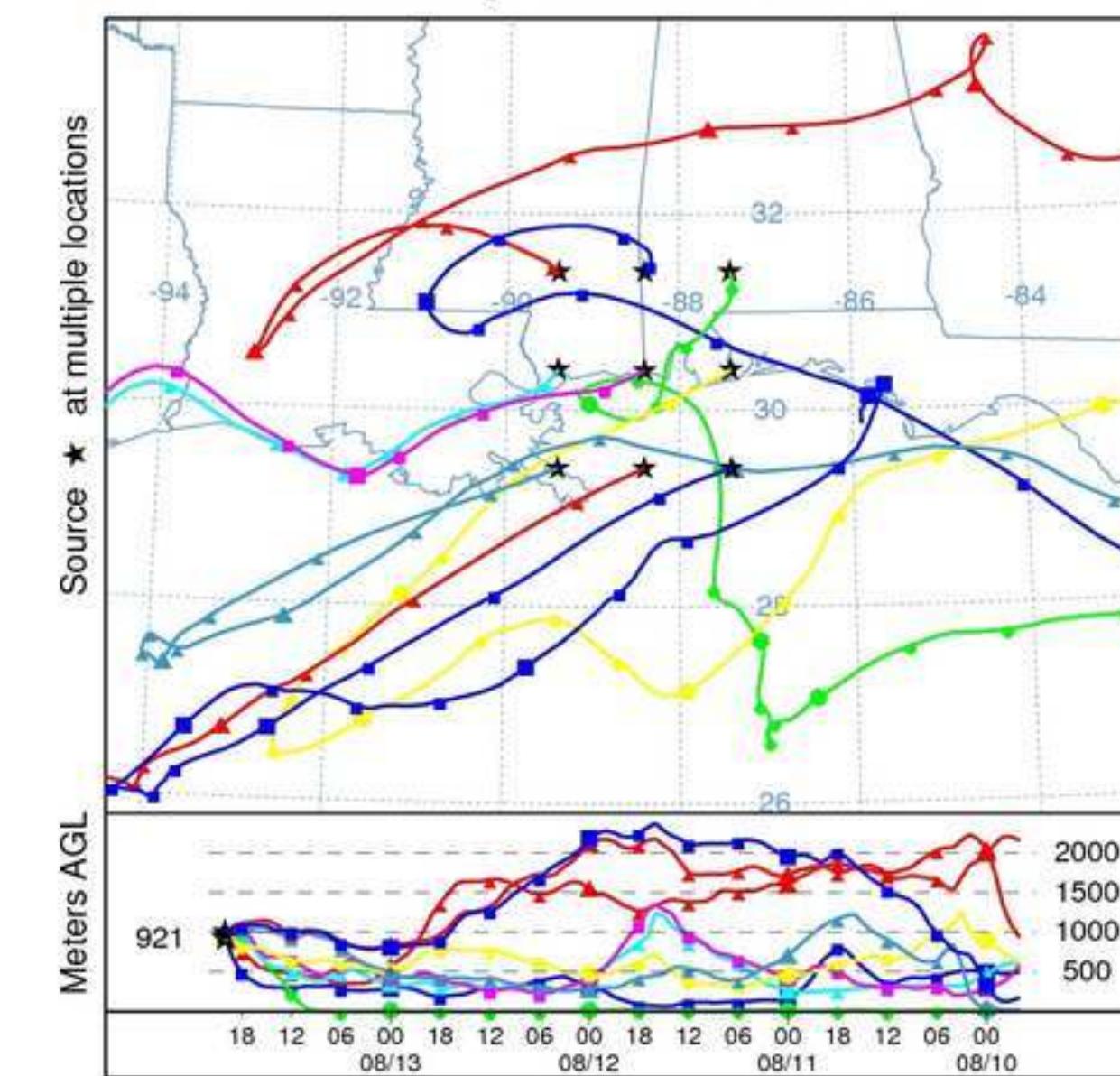
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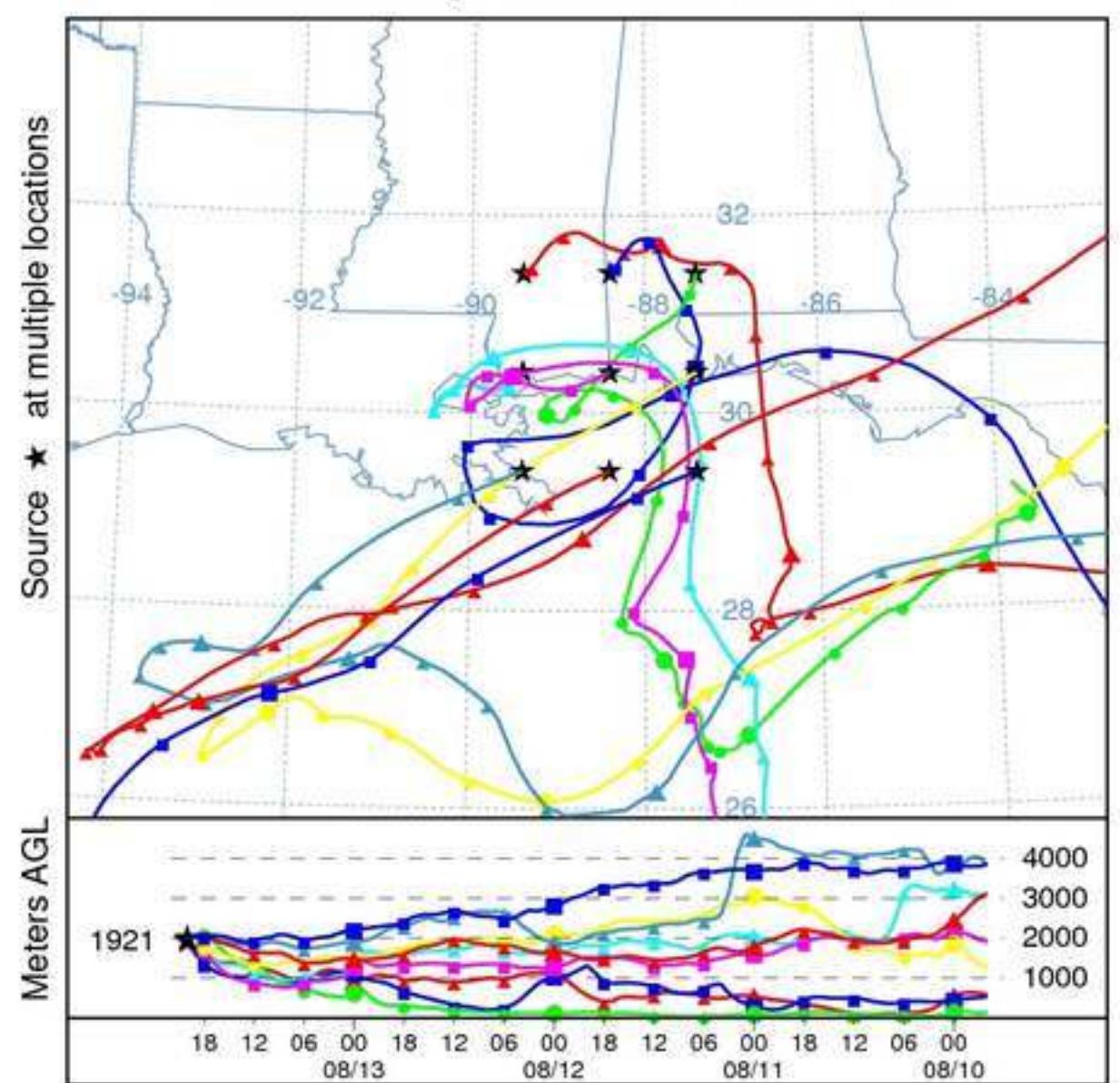
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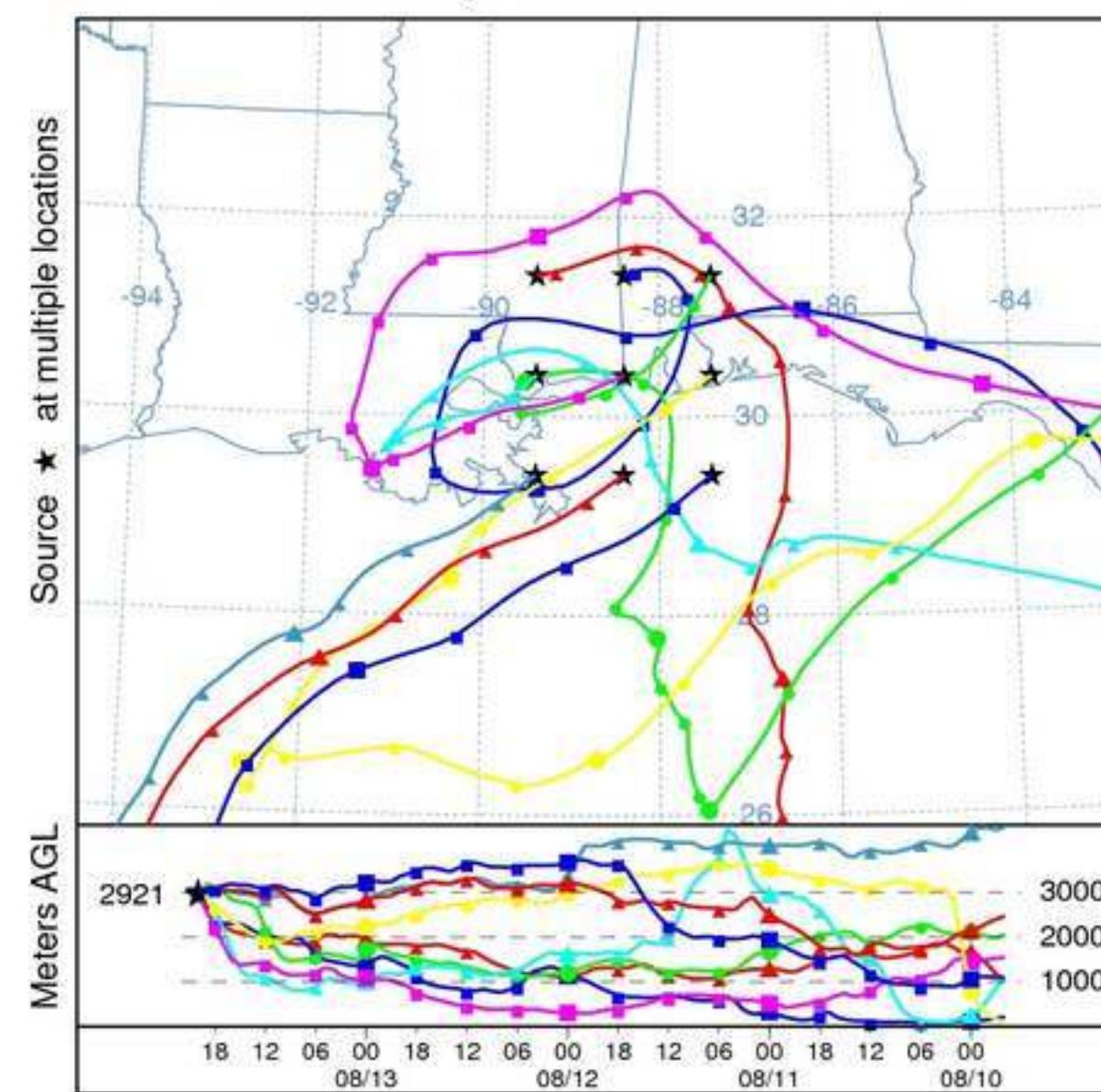
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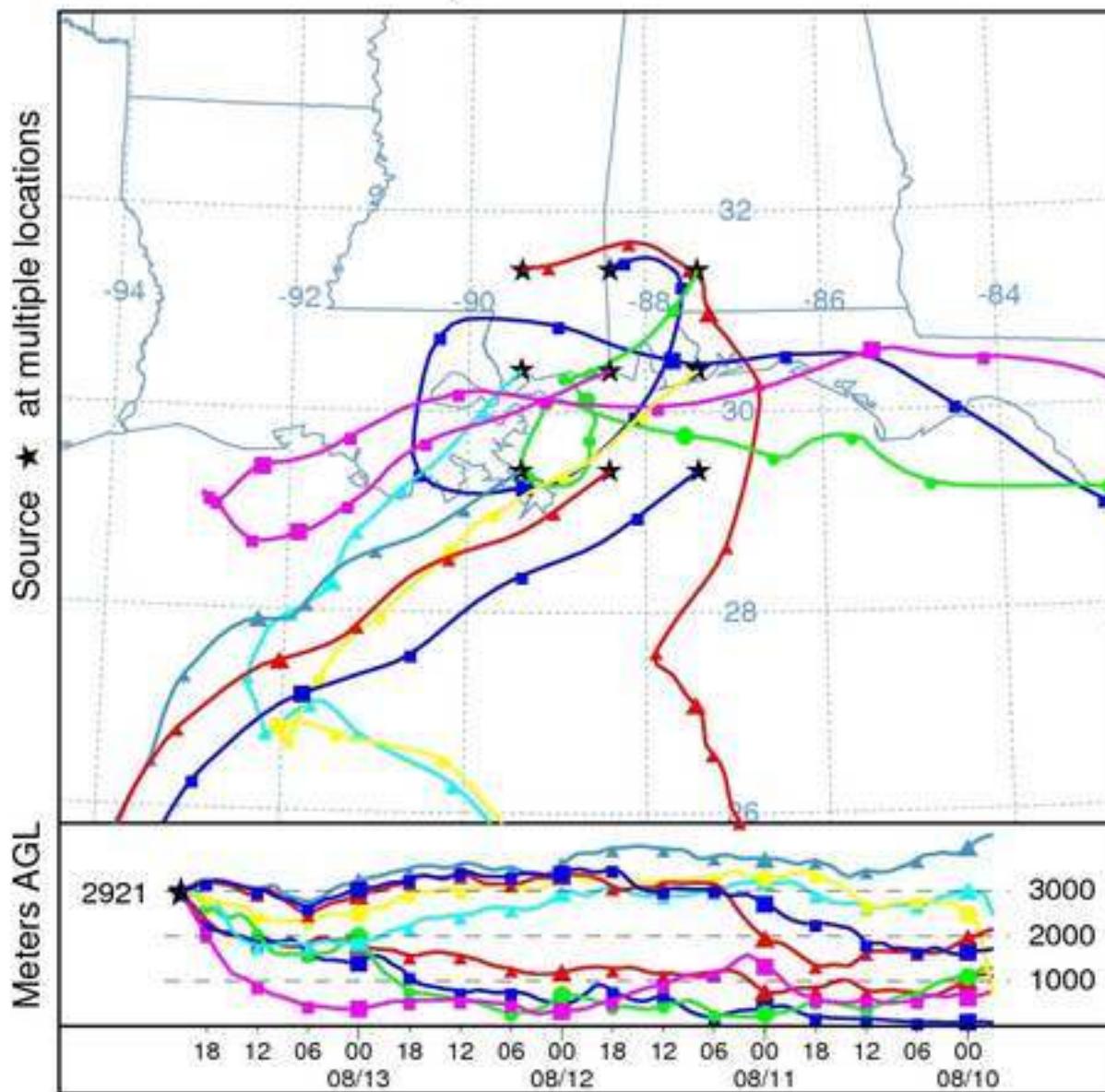
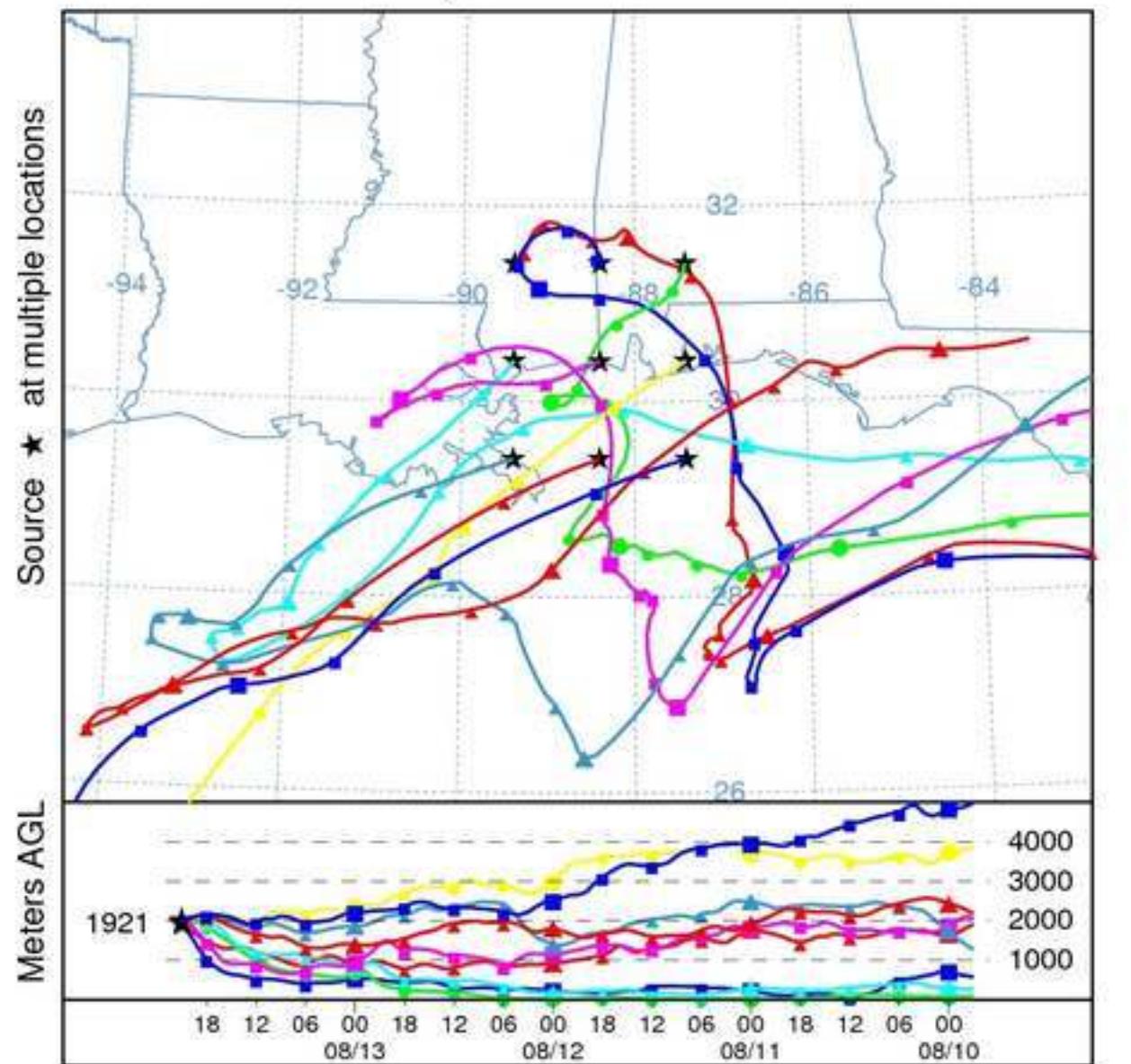
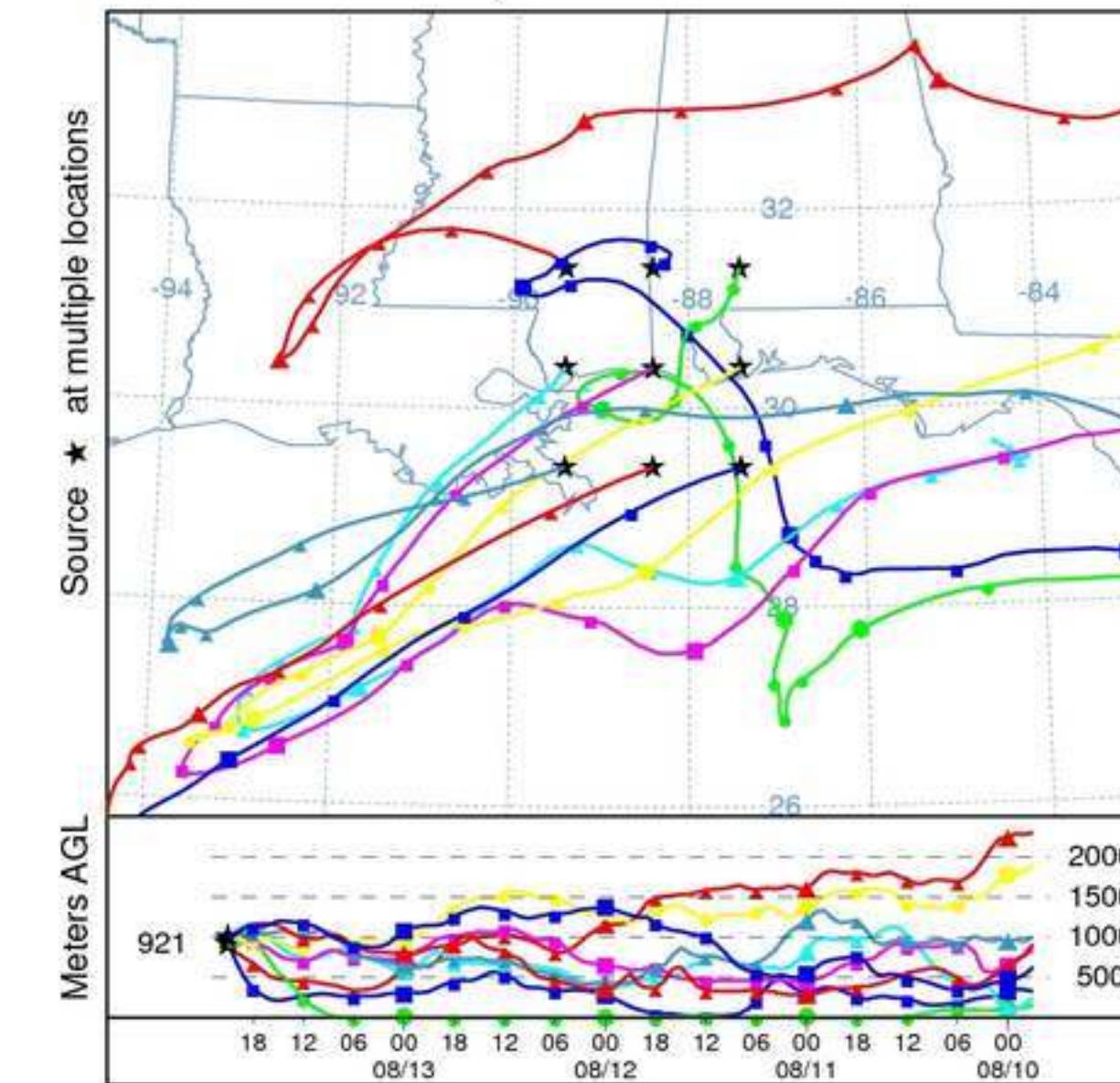
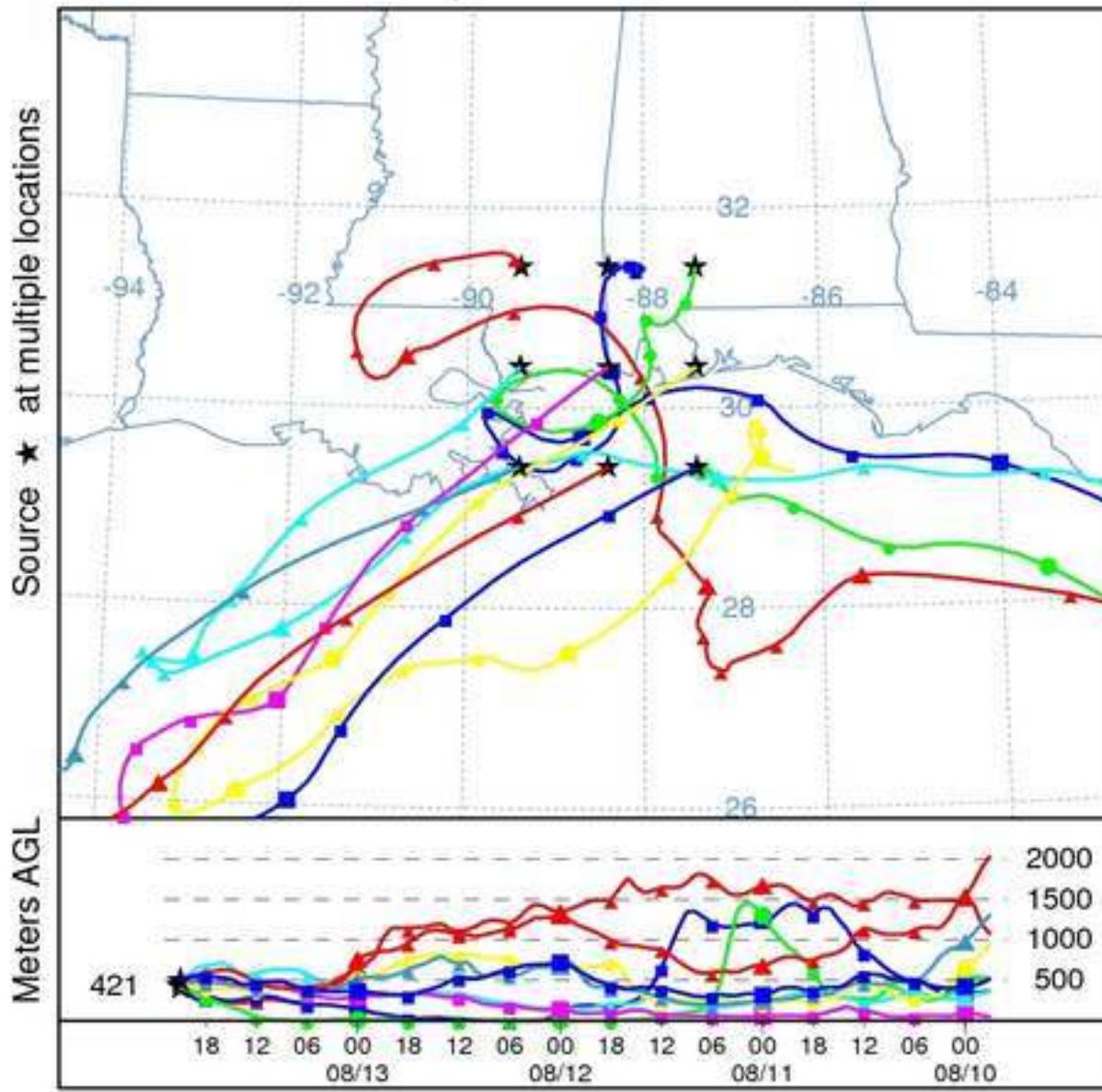
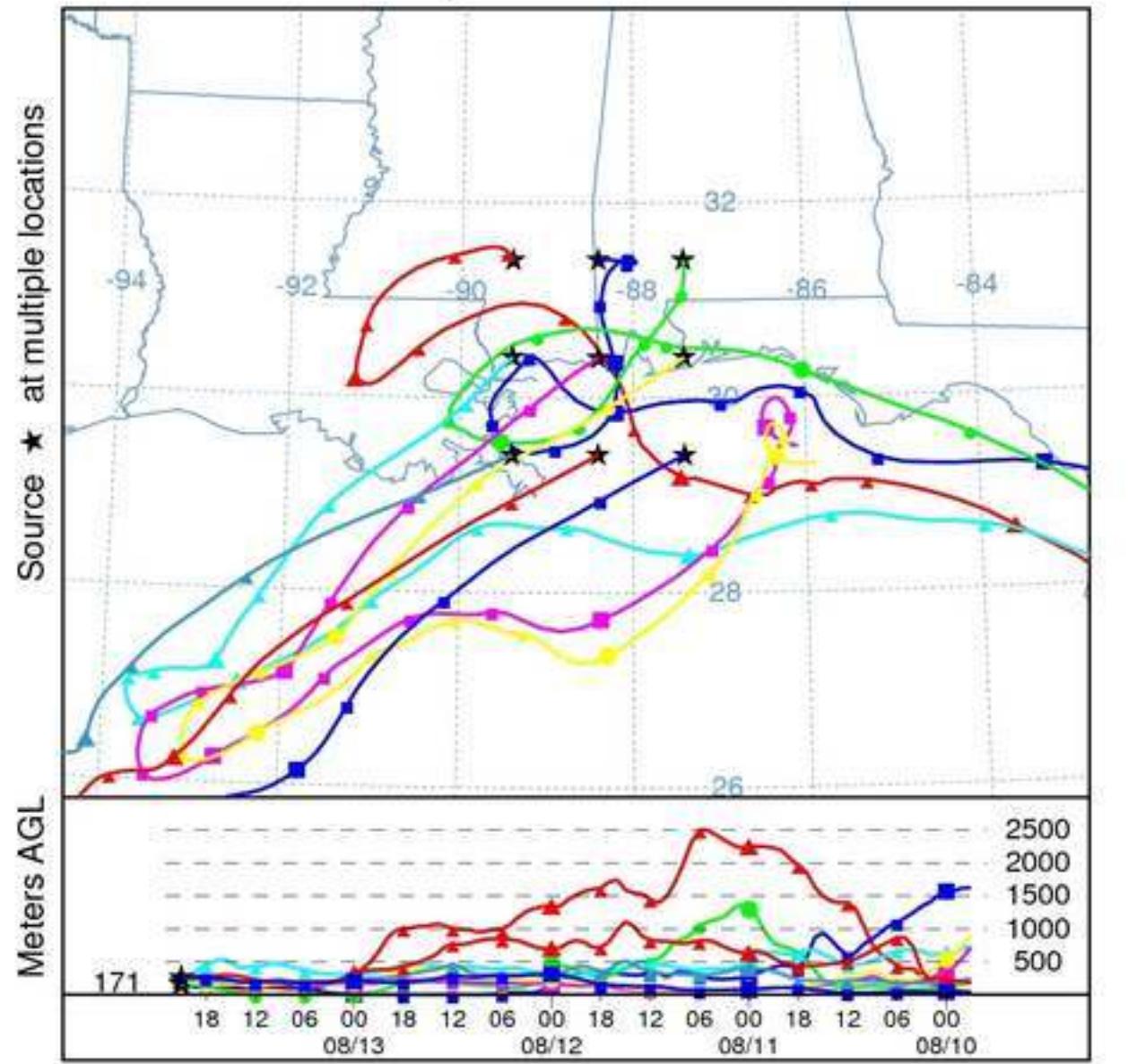
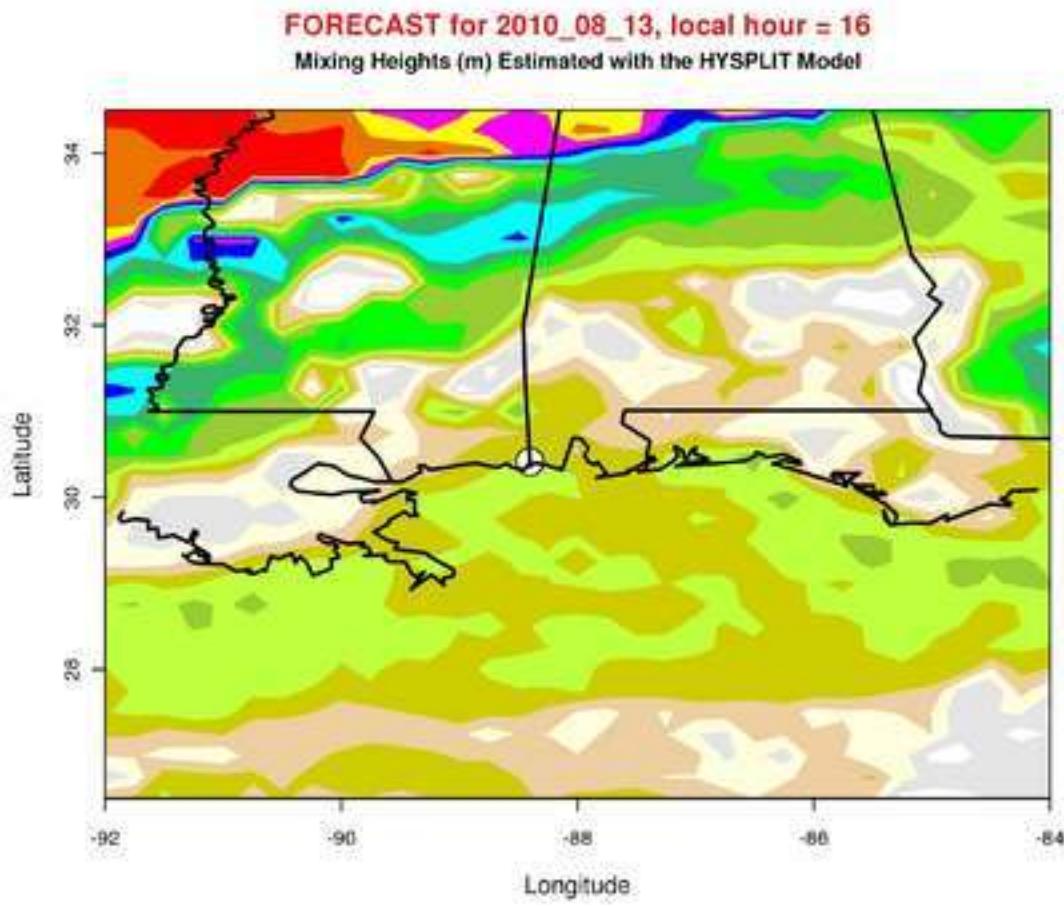


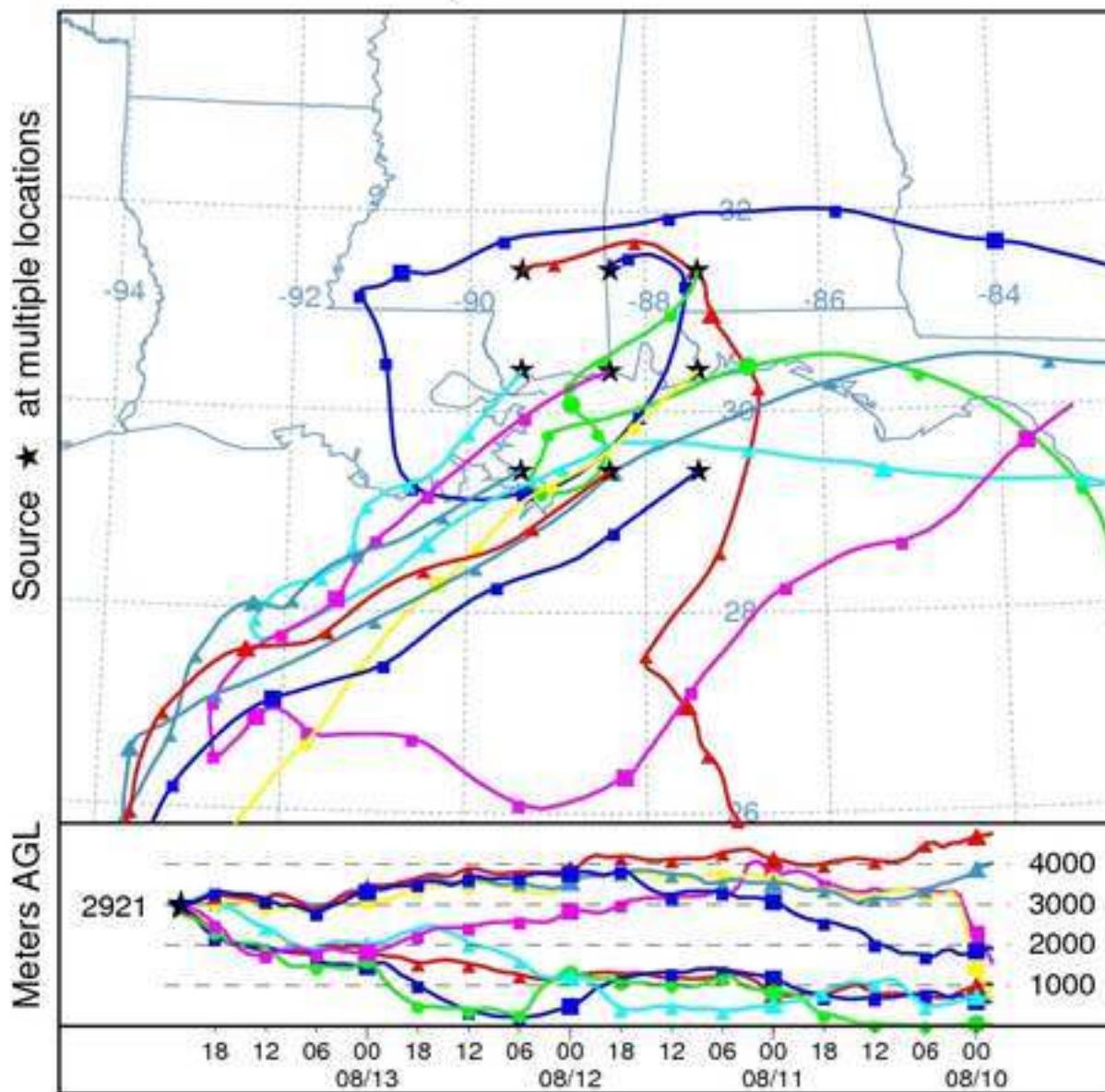
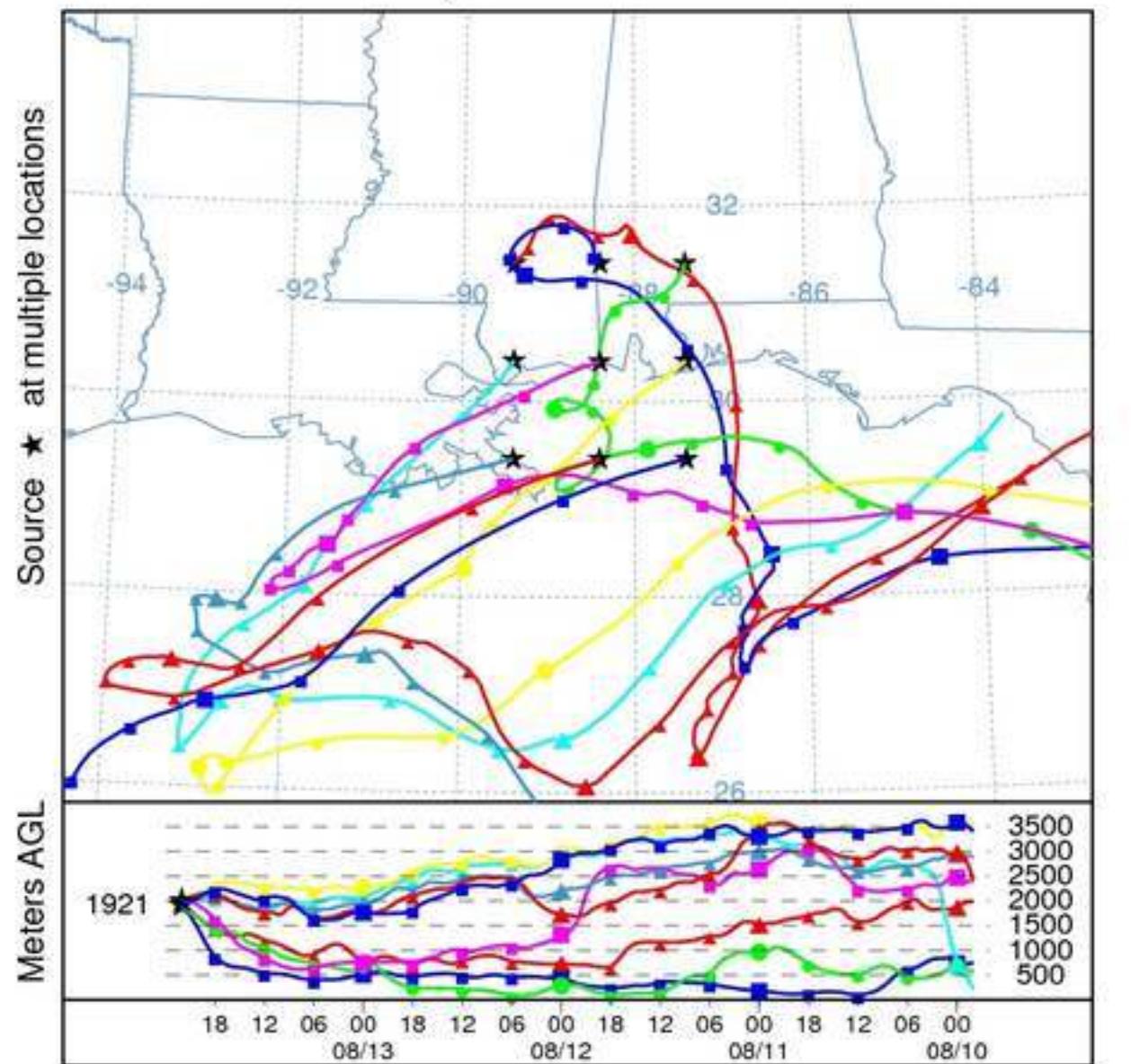
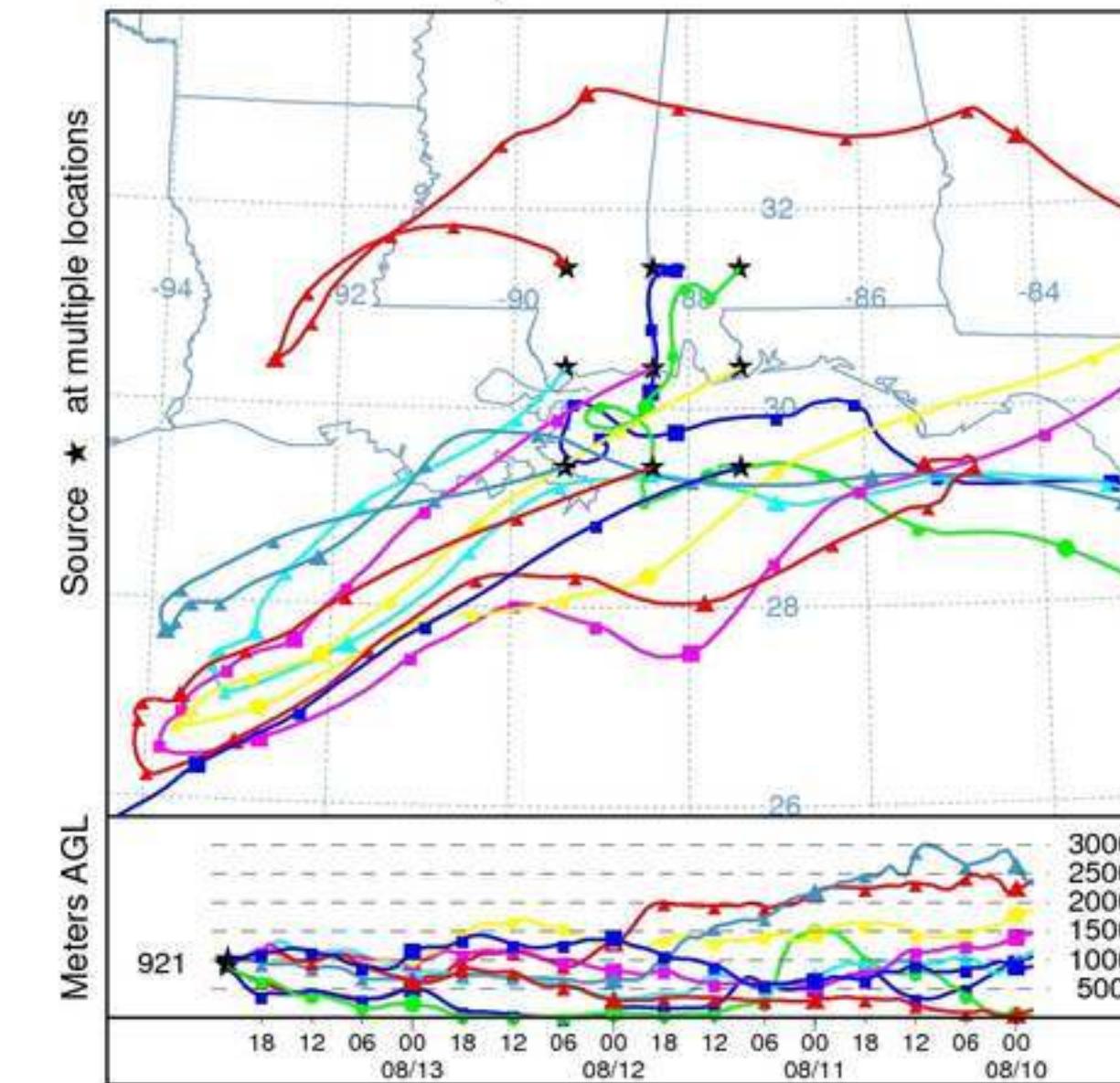
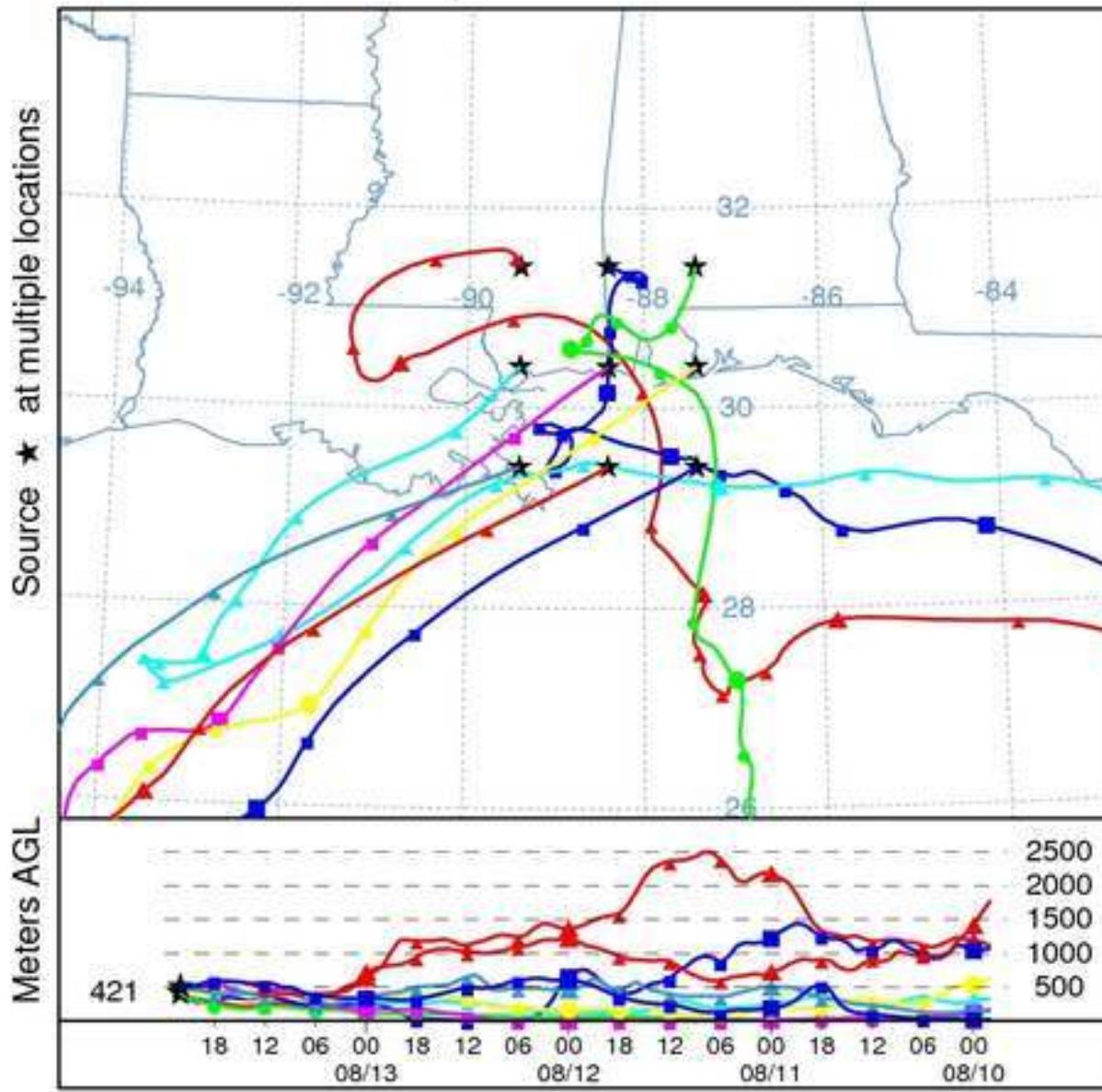
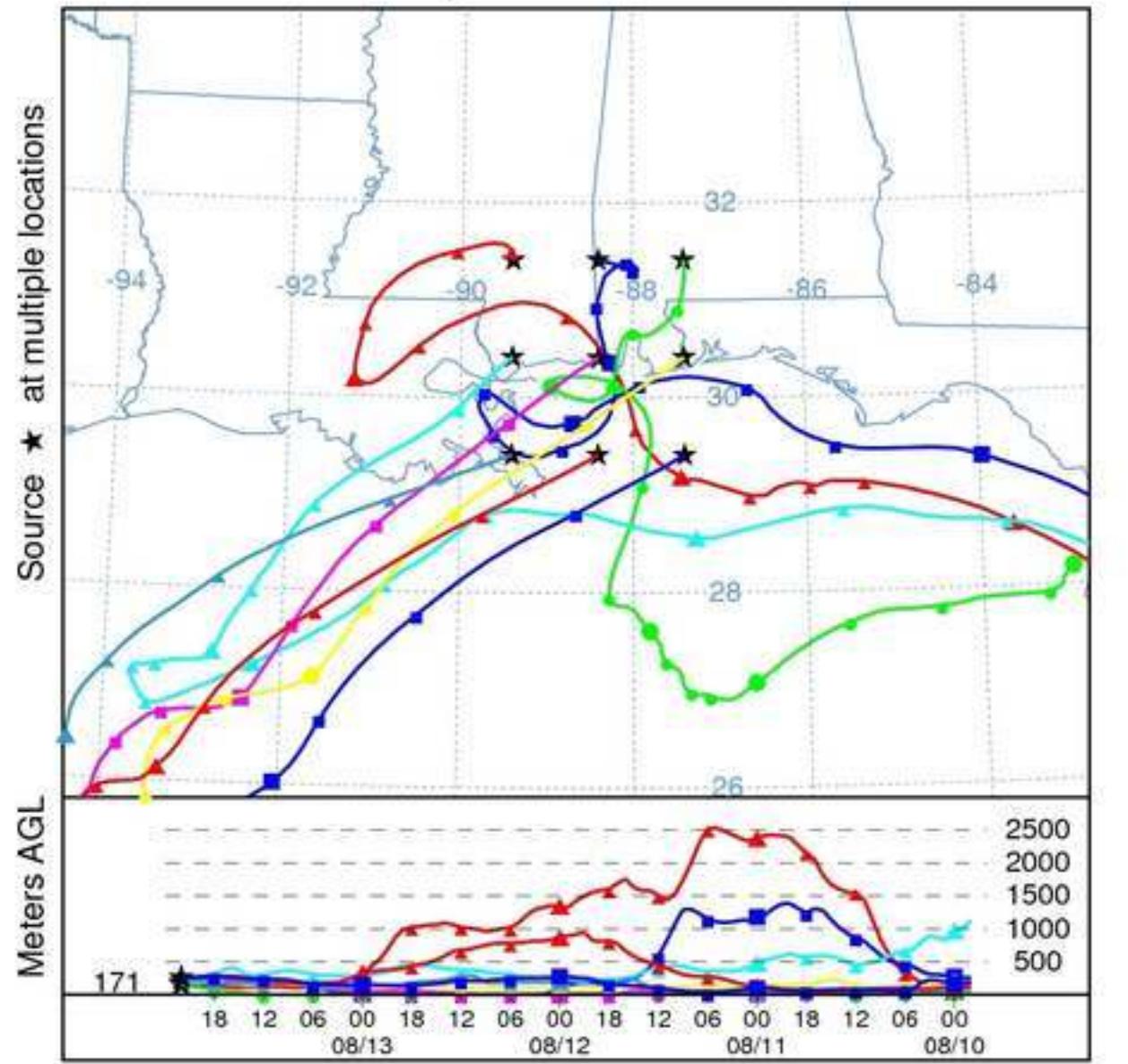
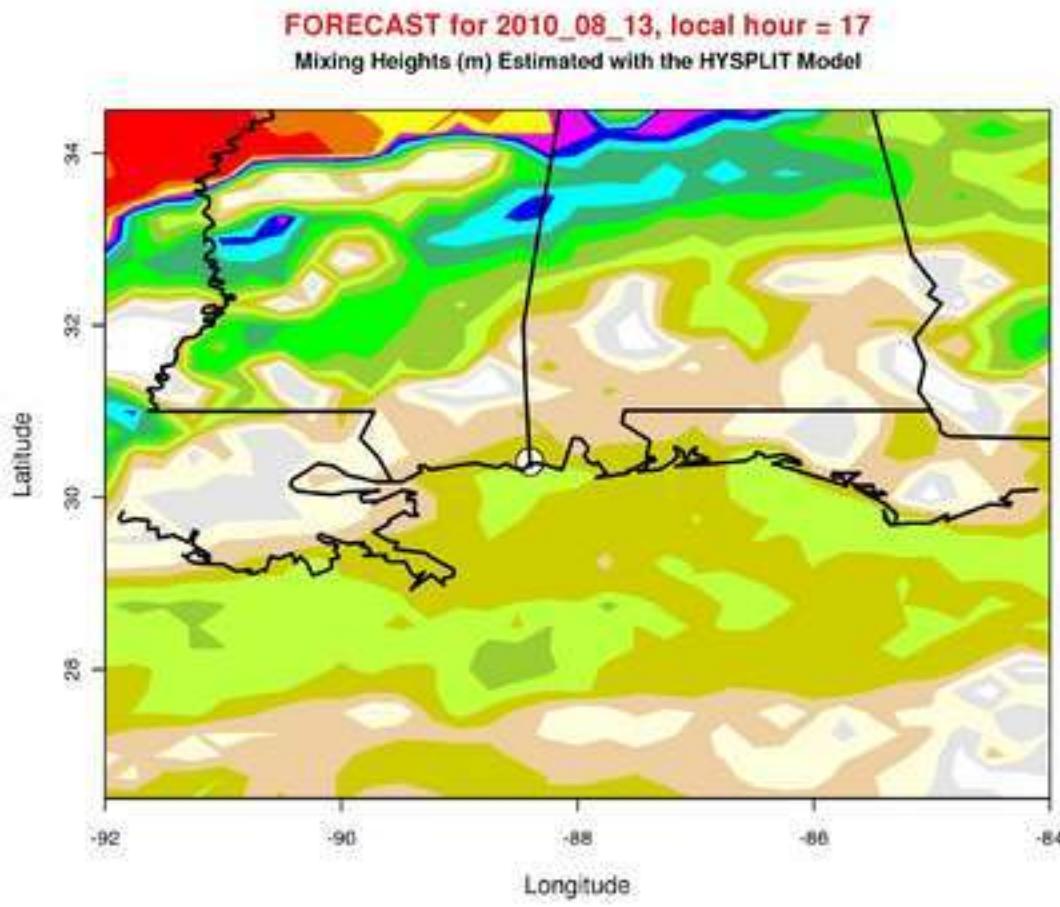
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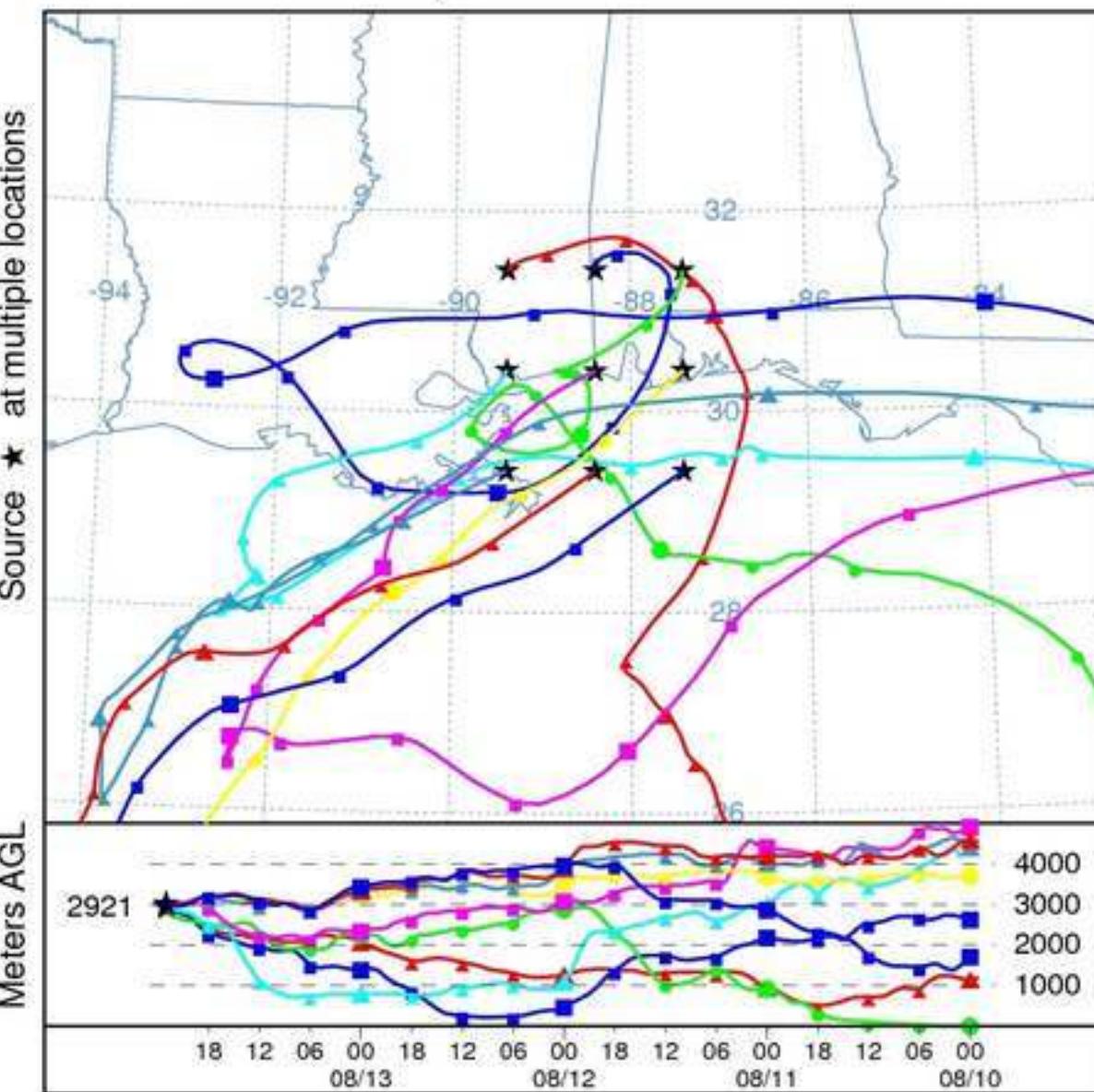
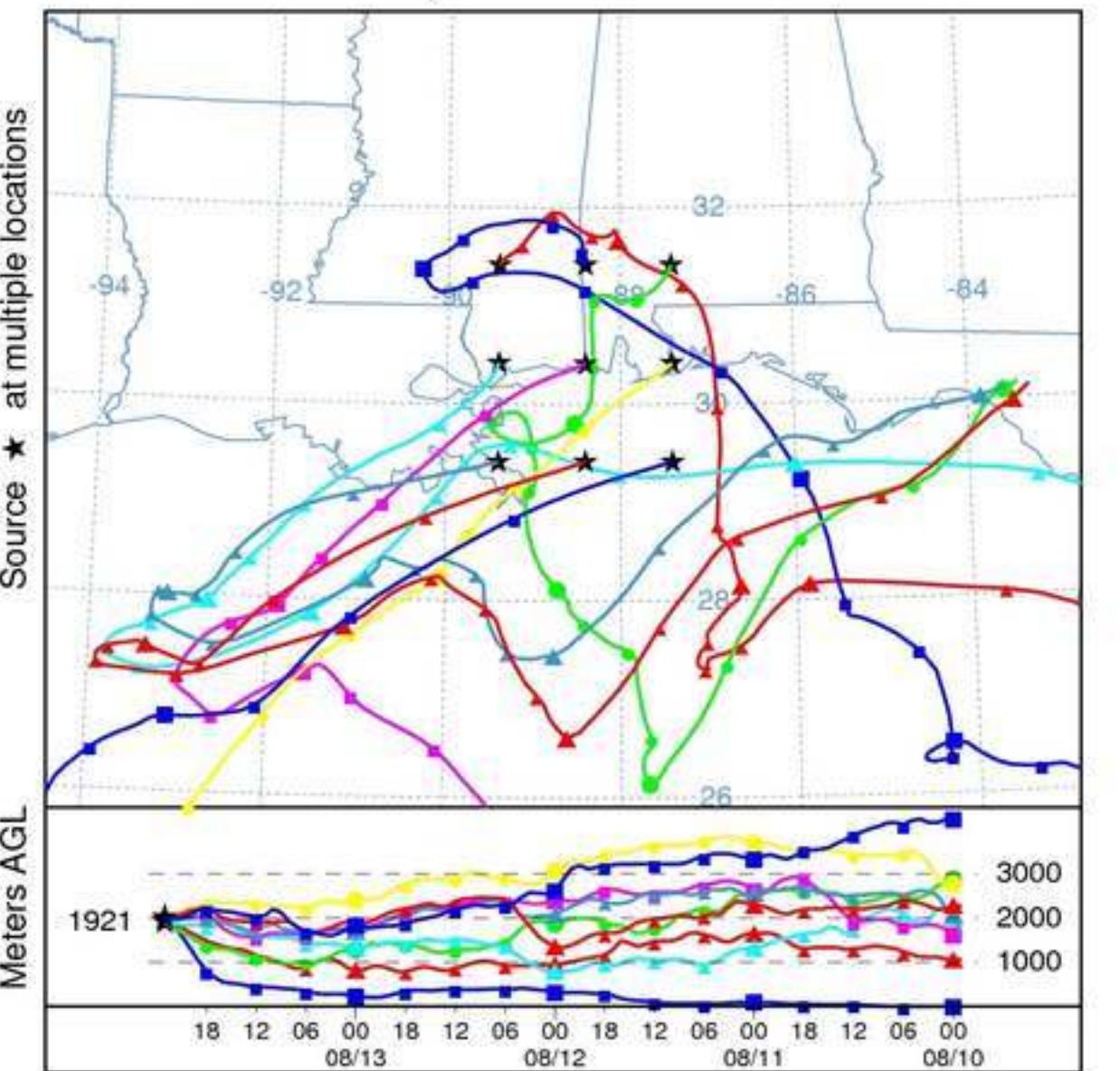
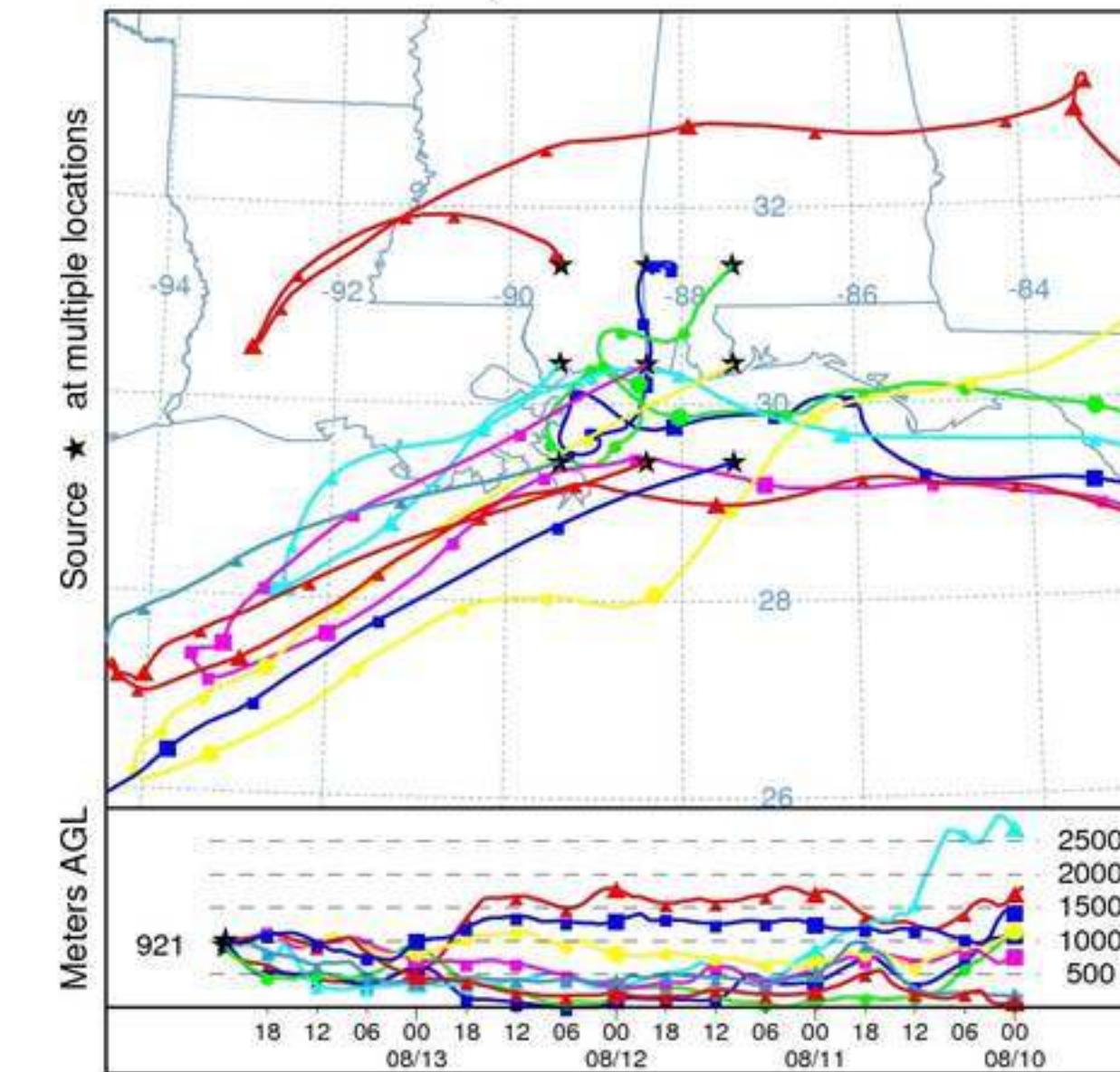
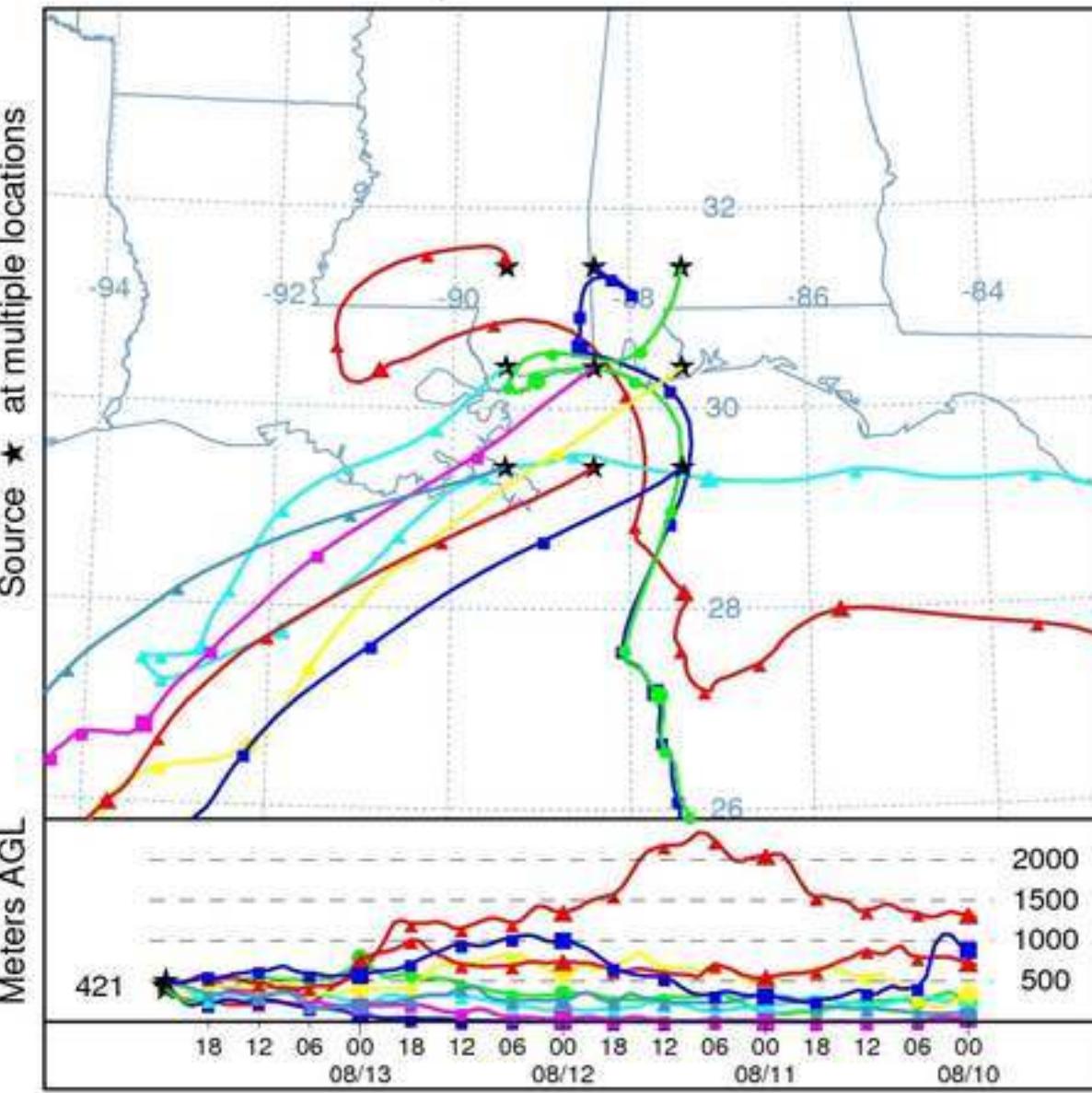
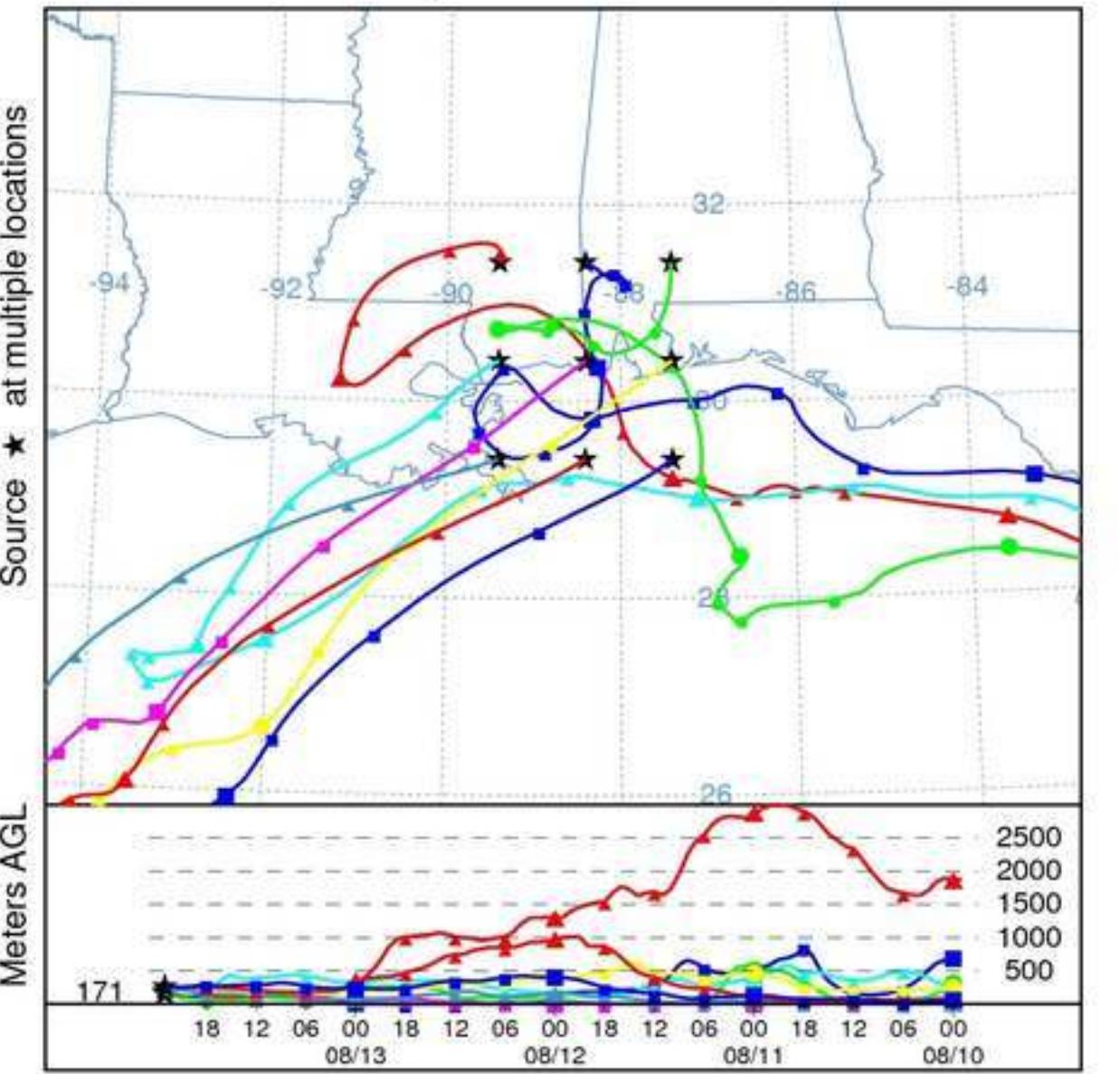
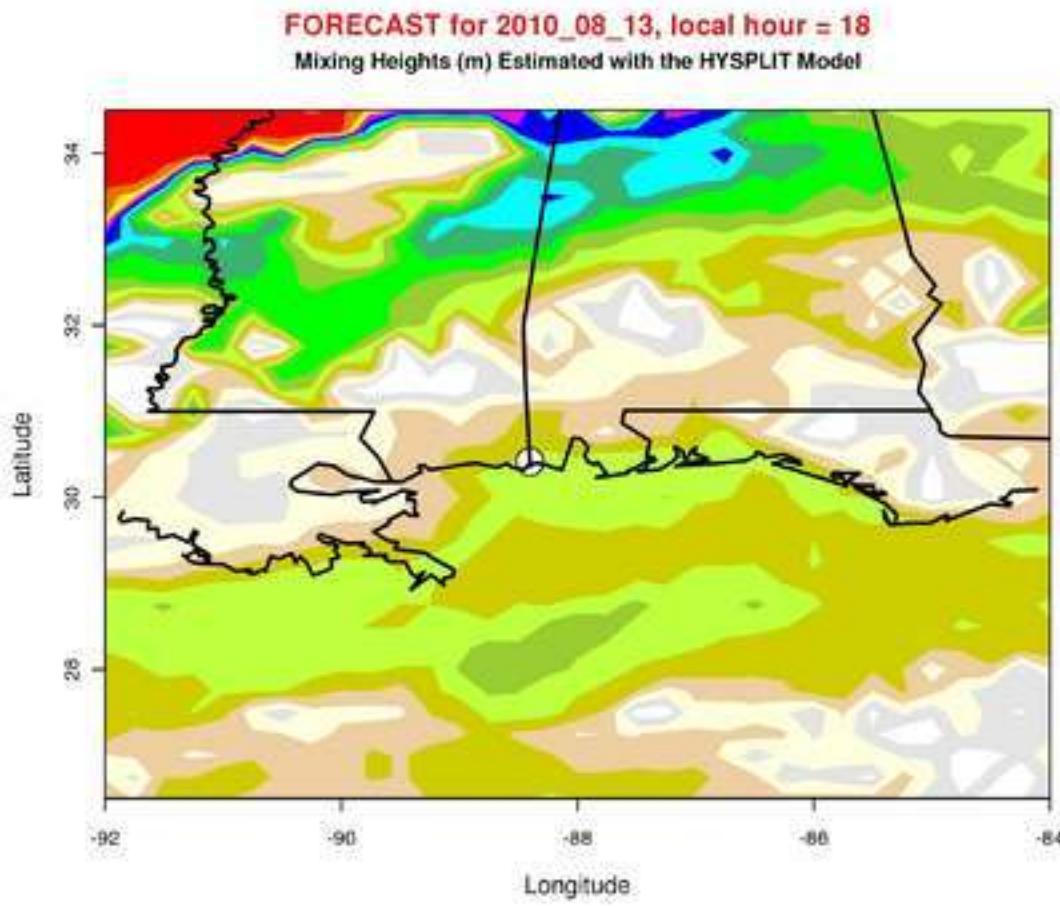


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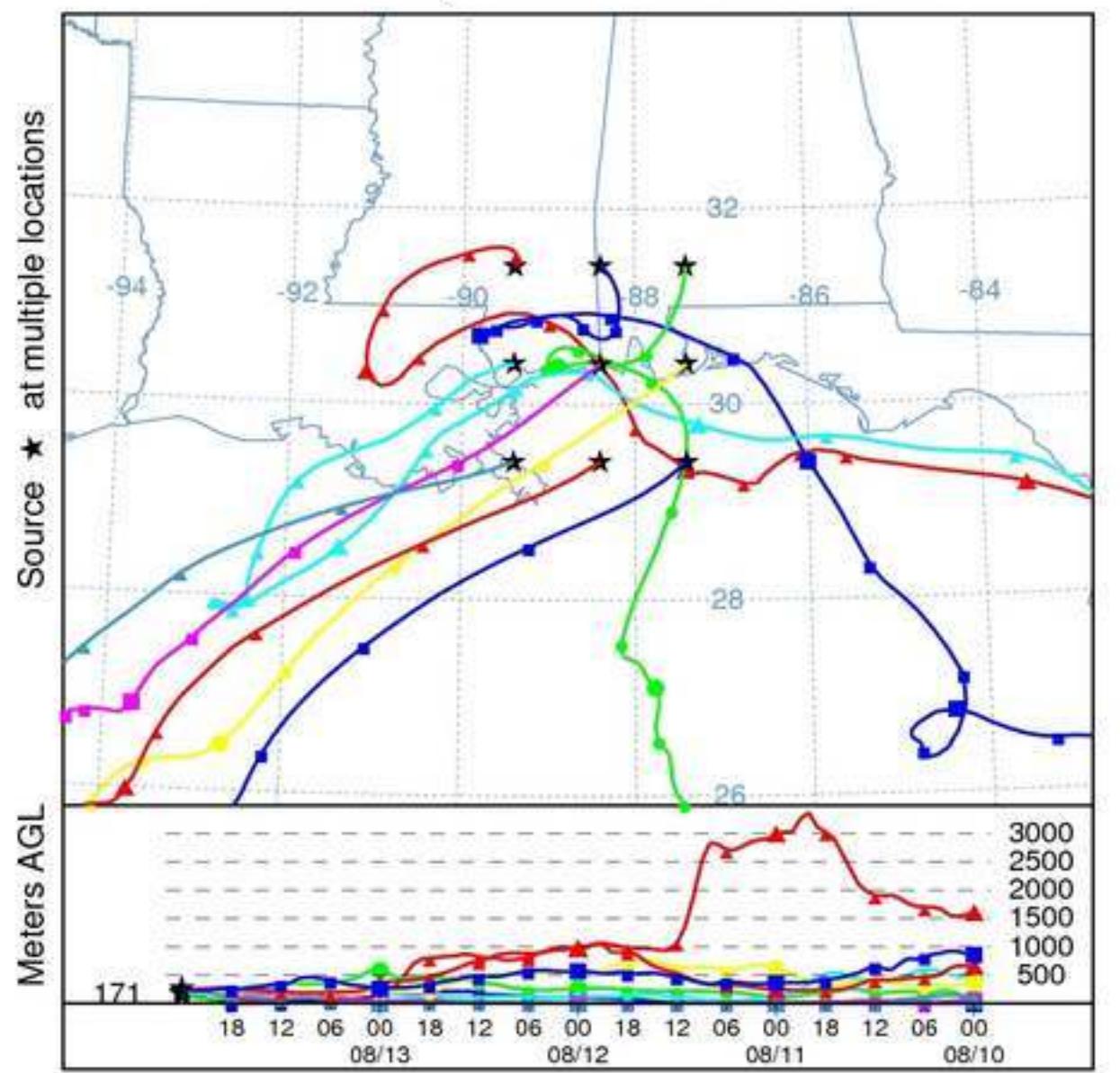
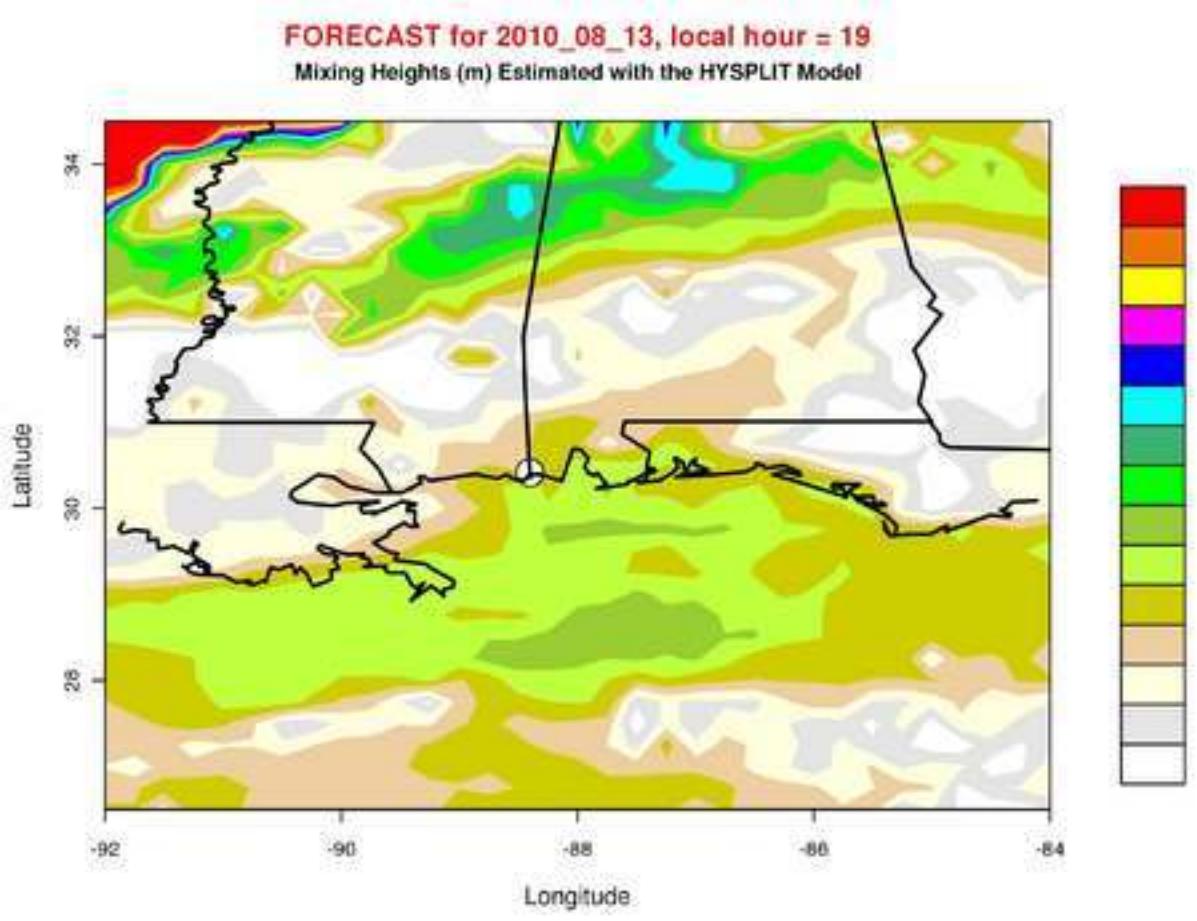




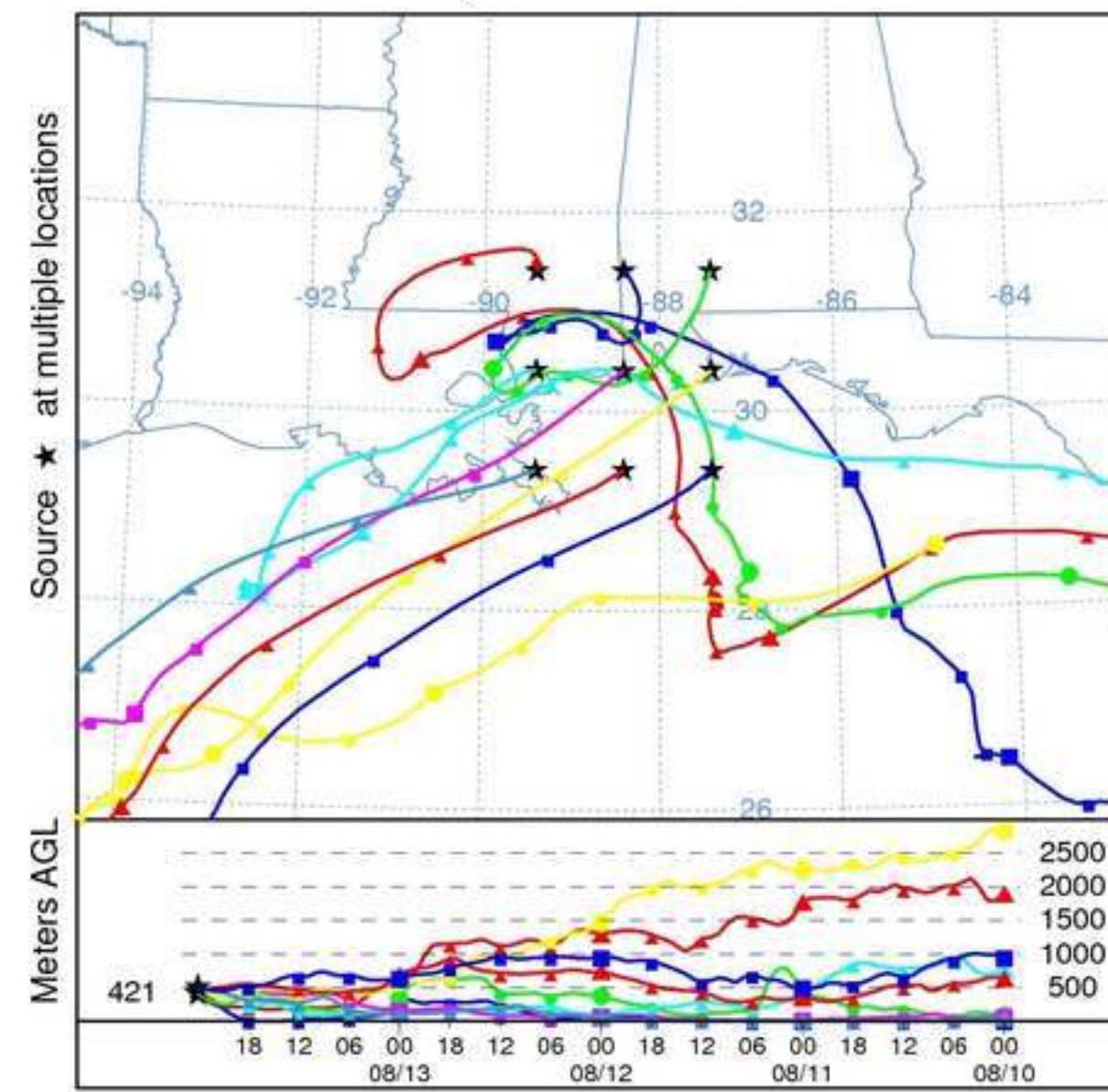




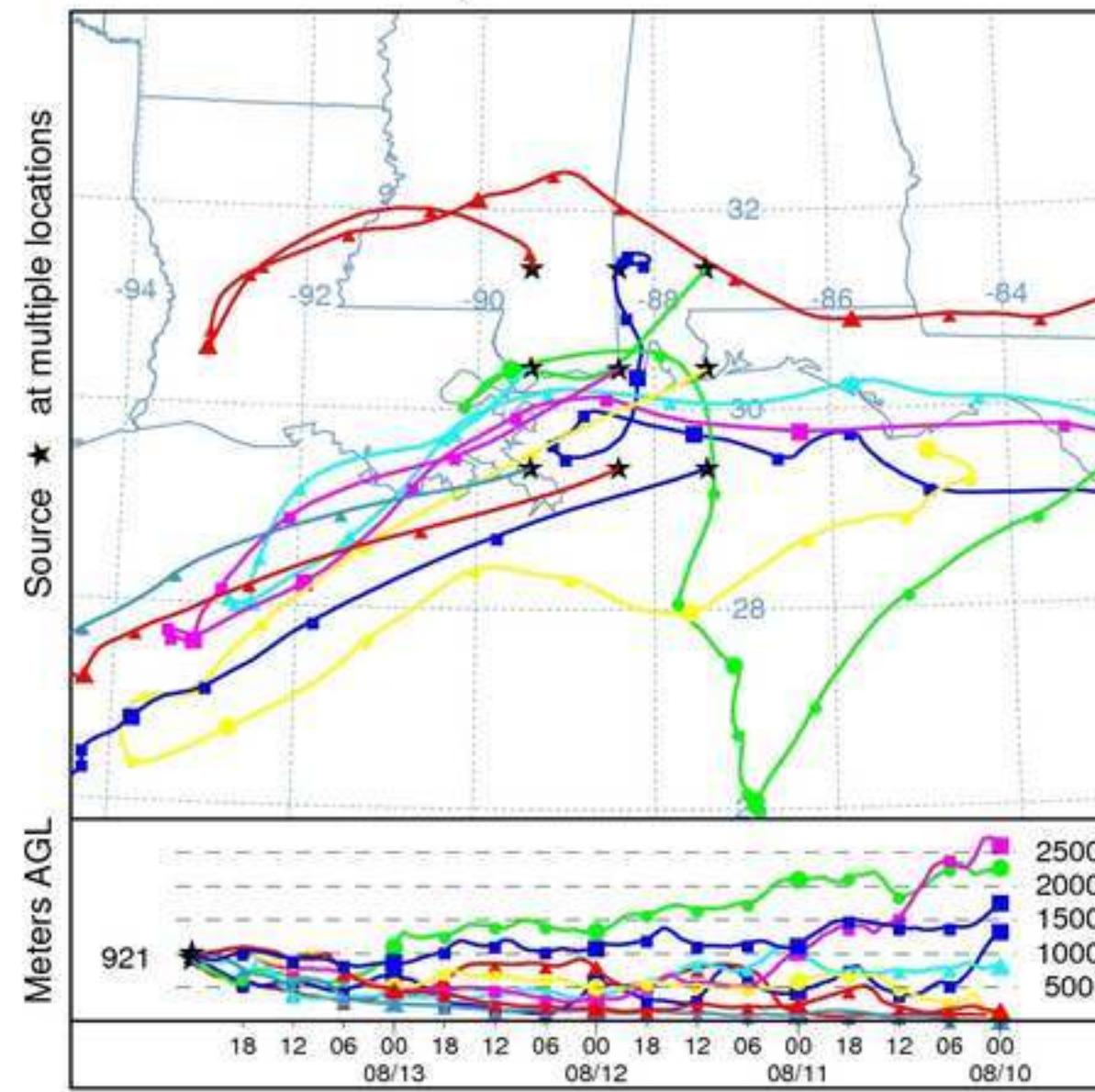
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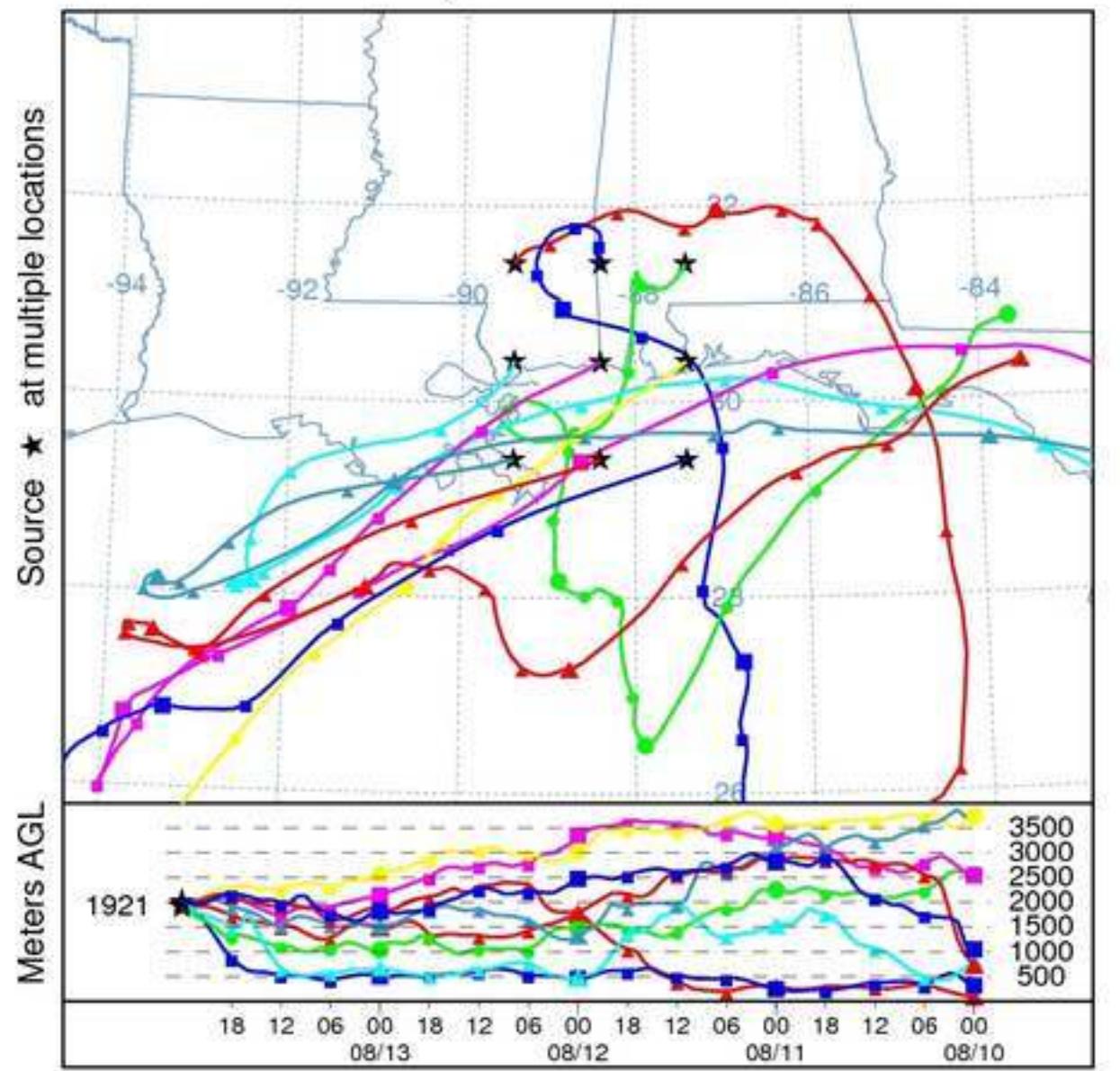
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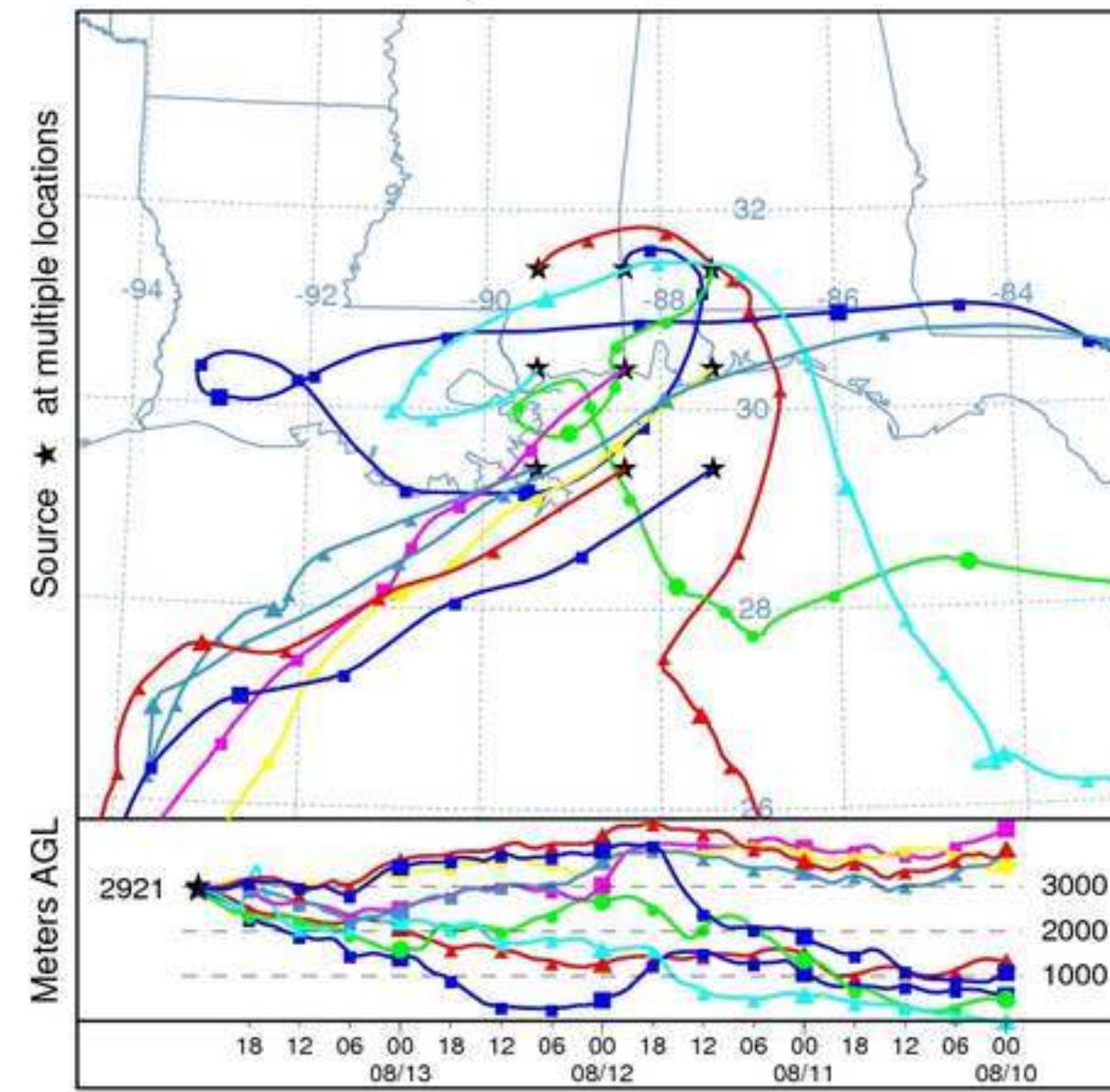
NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 14 Aug 10
00 UTC 13 Aug NAMS Forecast Initialization



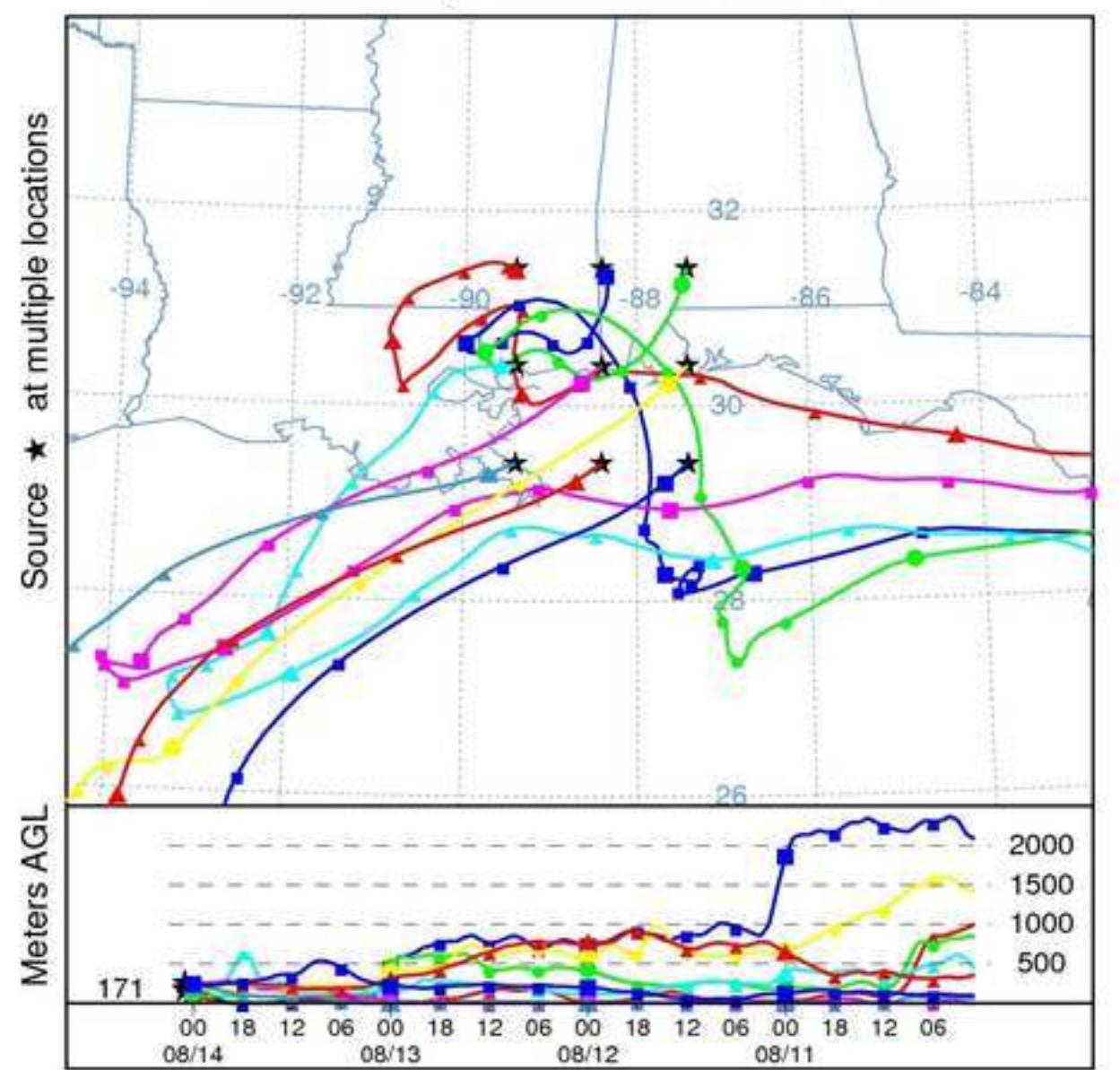
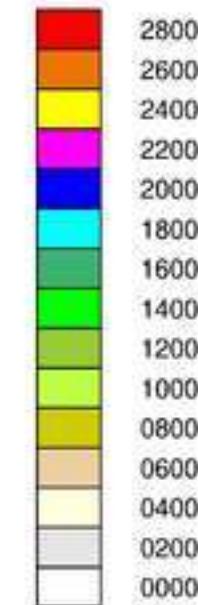
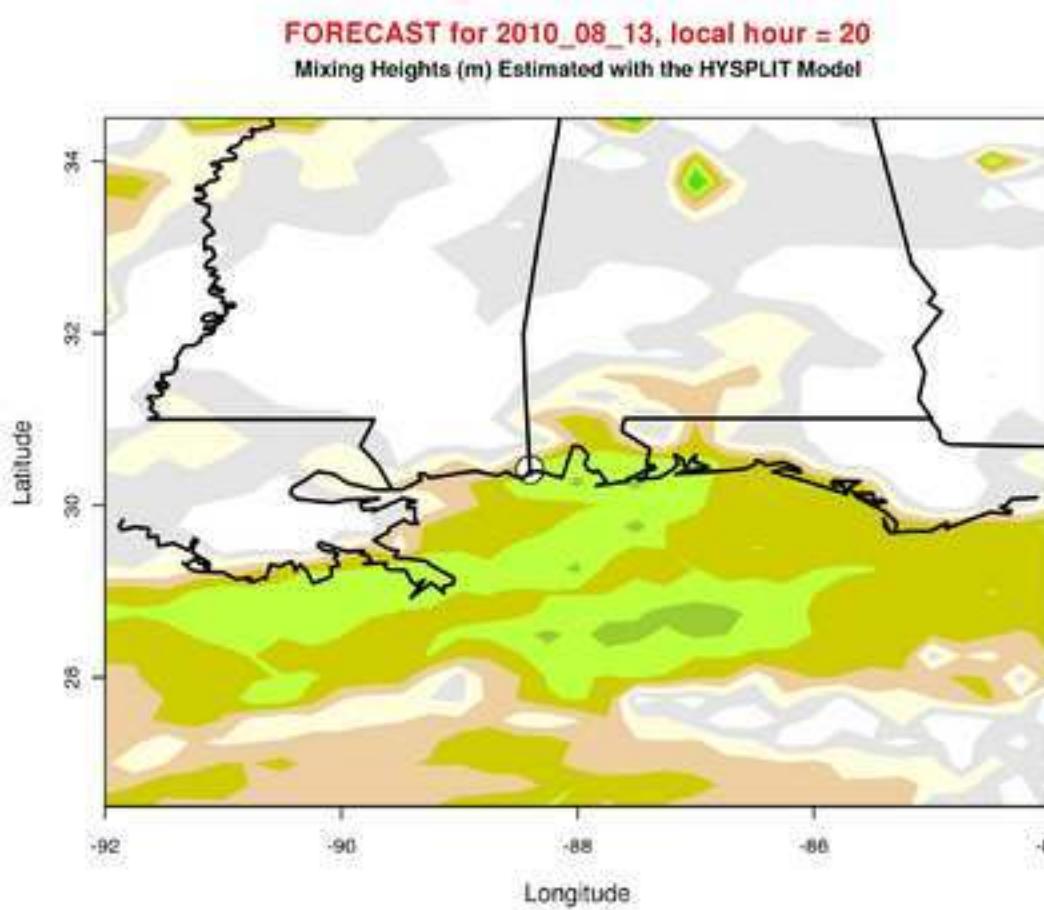
NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 14 Aug 10
00 UTC 13 Aug NAMS Forecast Initialization



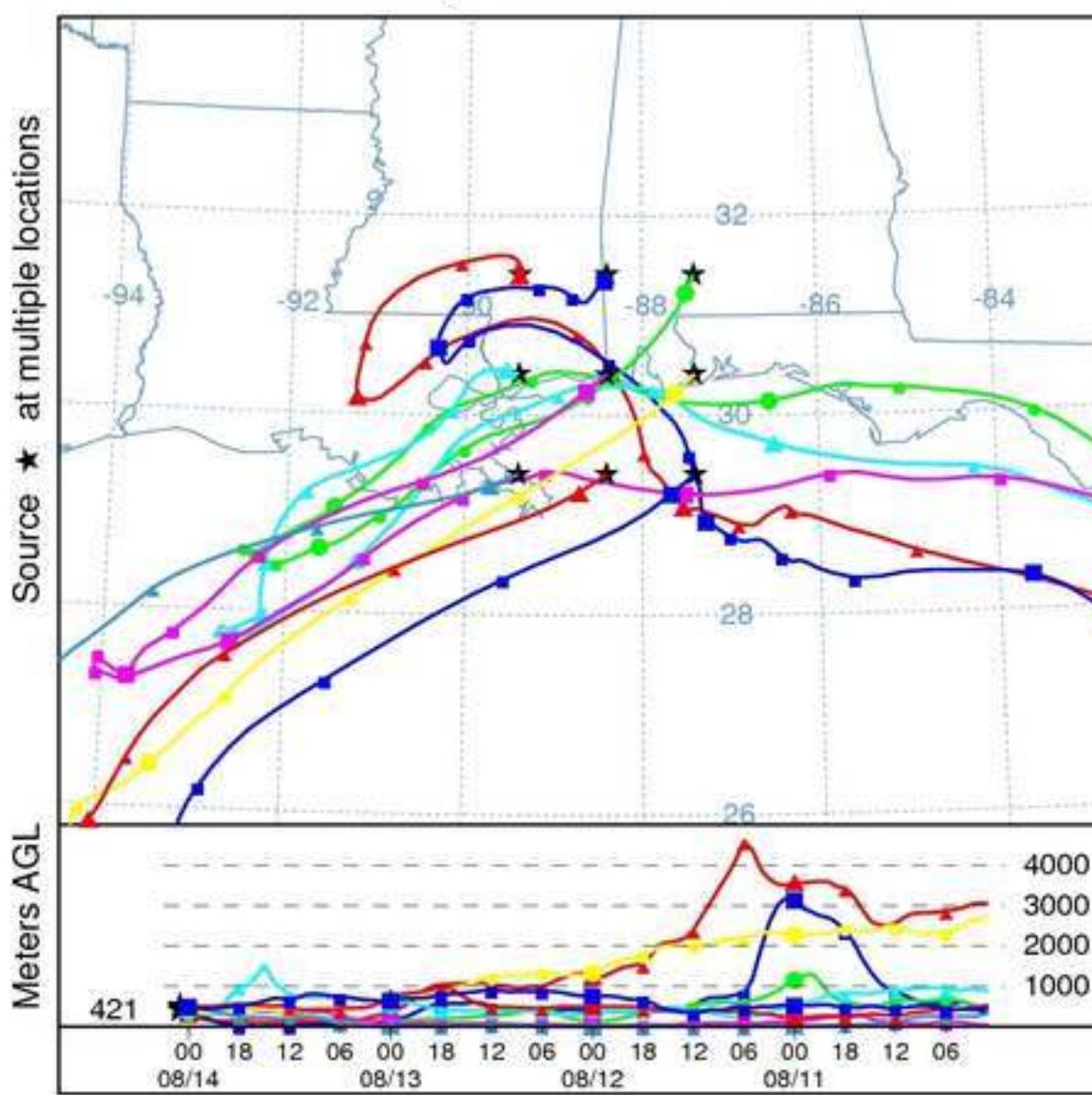
NOAA HYSPLIT MODEL
Backward trajectories ending at 0000 UTC 14 Aug 10
00 UTC 13 Aug NAMS Forecast Initialization



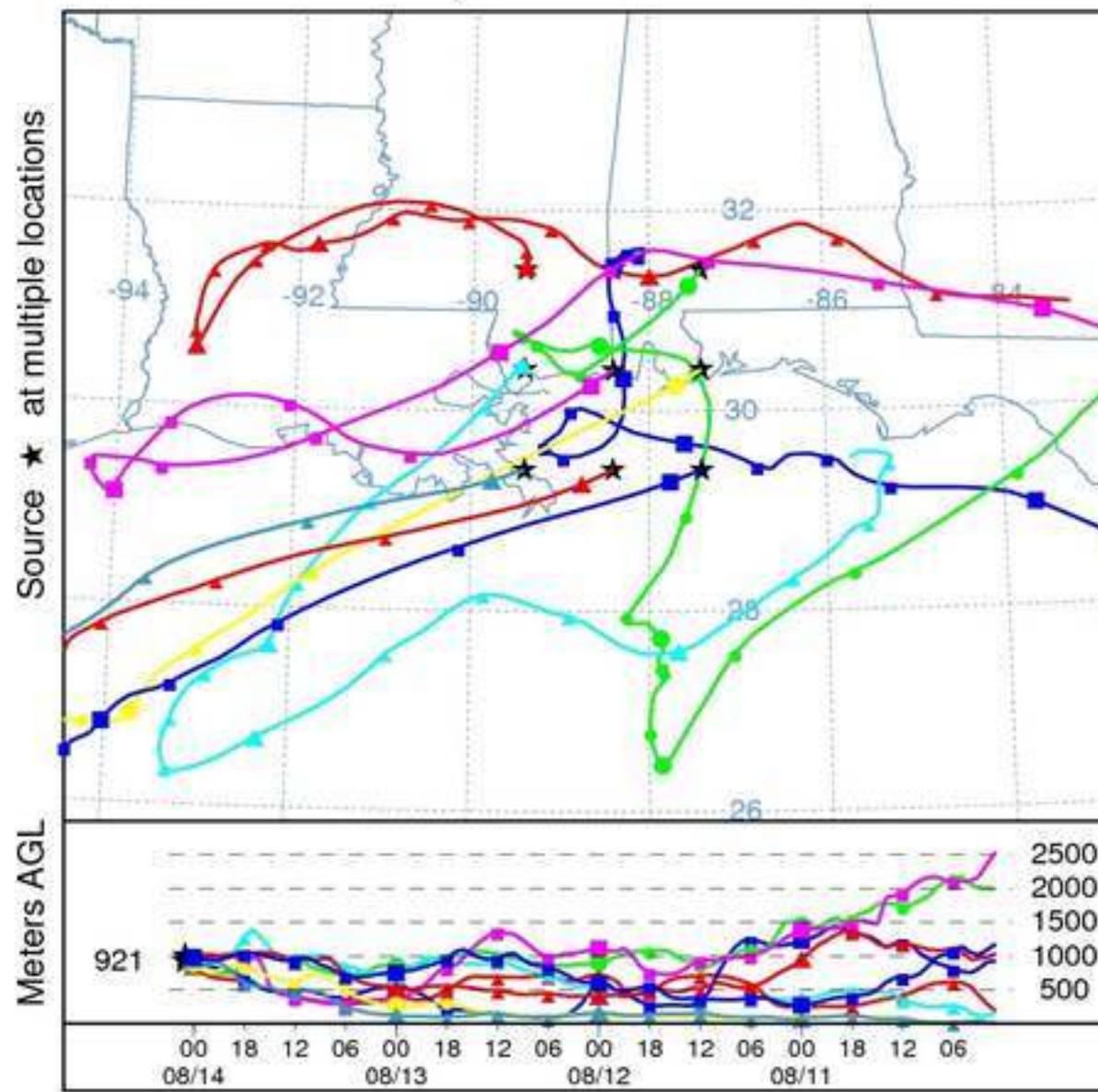
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Backward trajectories ending at 0100 UTC 14 Aug 10
00 UTC 13 Aug NAMS Forecast Initialization



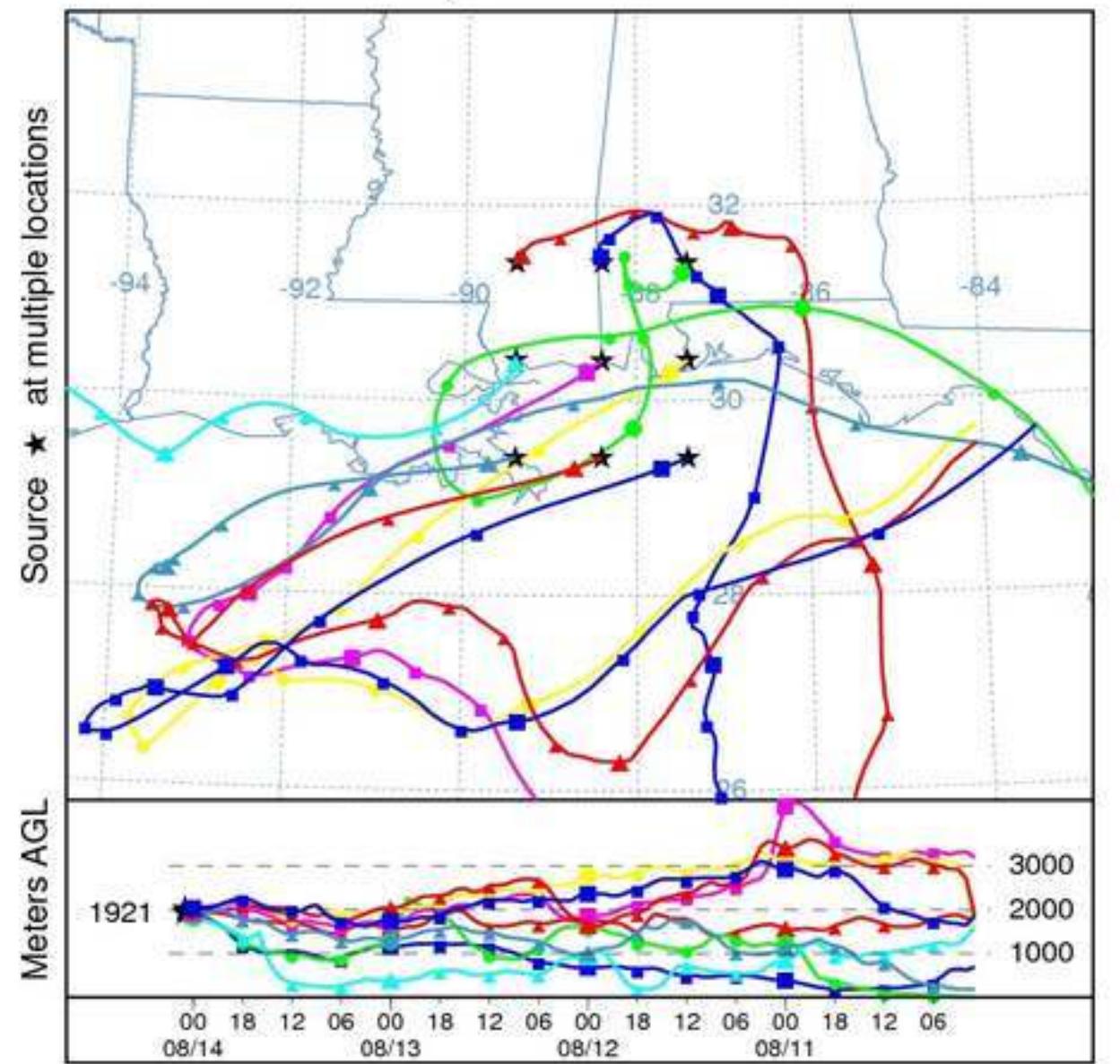
NOAA HYSPLIT MODEL
Backward trajectories ending at 0100 UTC 14 Aug 10
00 UTC 13 Aug NAMS Forecast Initialization



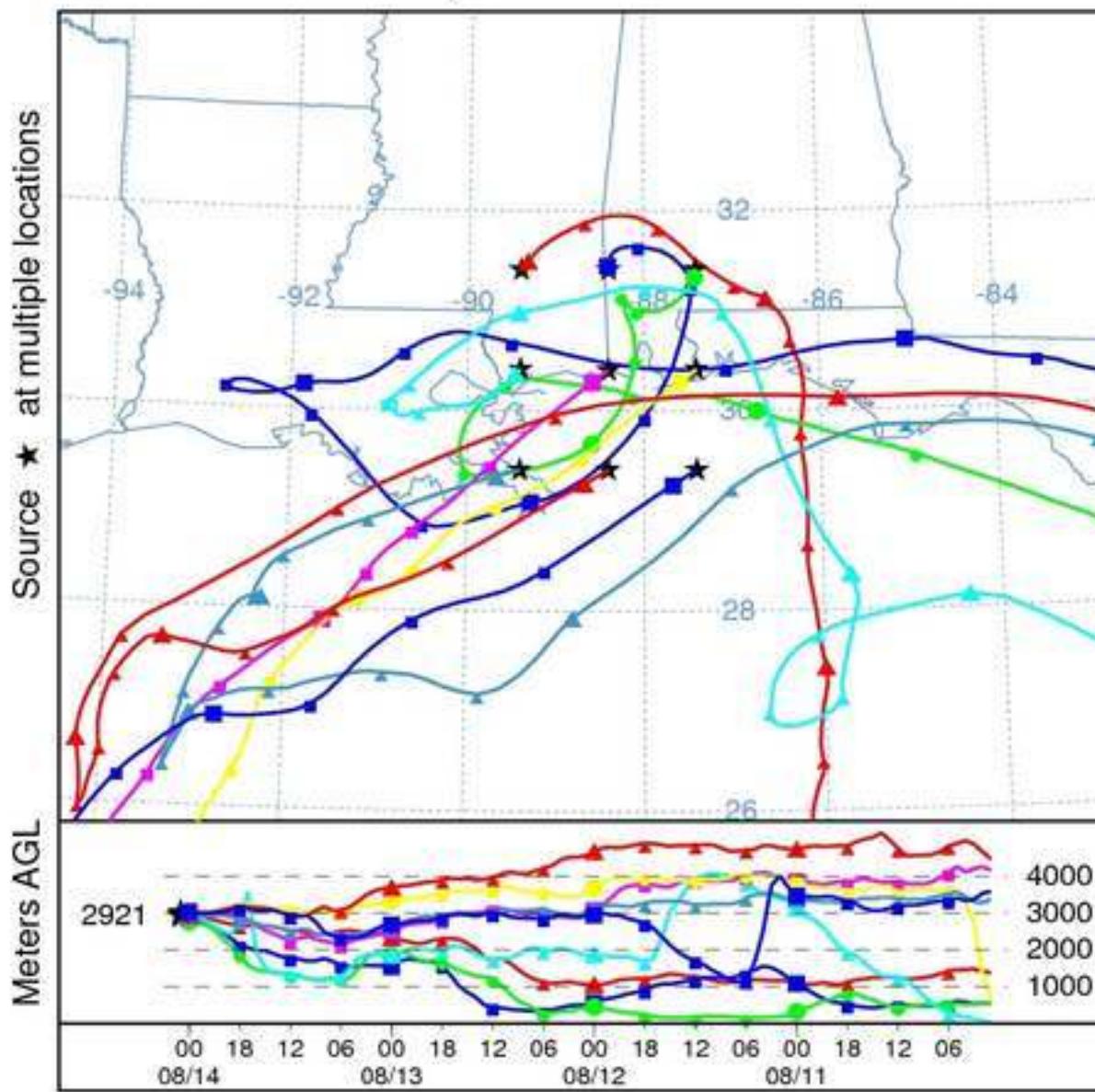
NOAA HYSPLIT MODEL
Backward trajectories ending at 0100 UTC 14 Aug 10
00 UTC 13 Aug NAMS Forecast Initialization



NOAA HYSPLIT MODEL
Backward trajectories ending at 0100 UTC 14 Aug 10
00 UTC 13 Aug NAMS Forecast Initialization

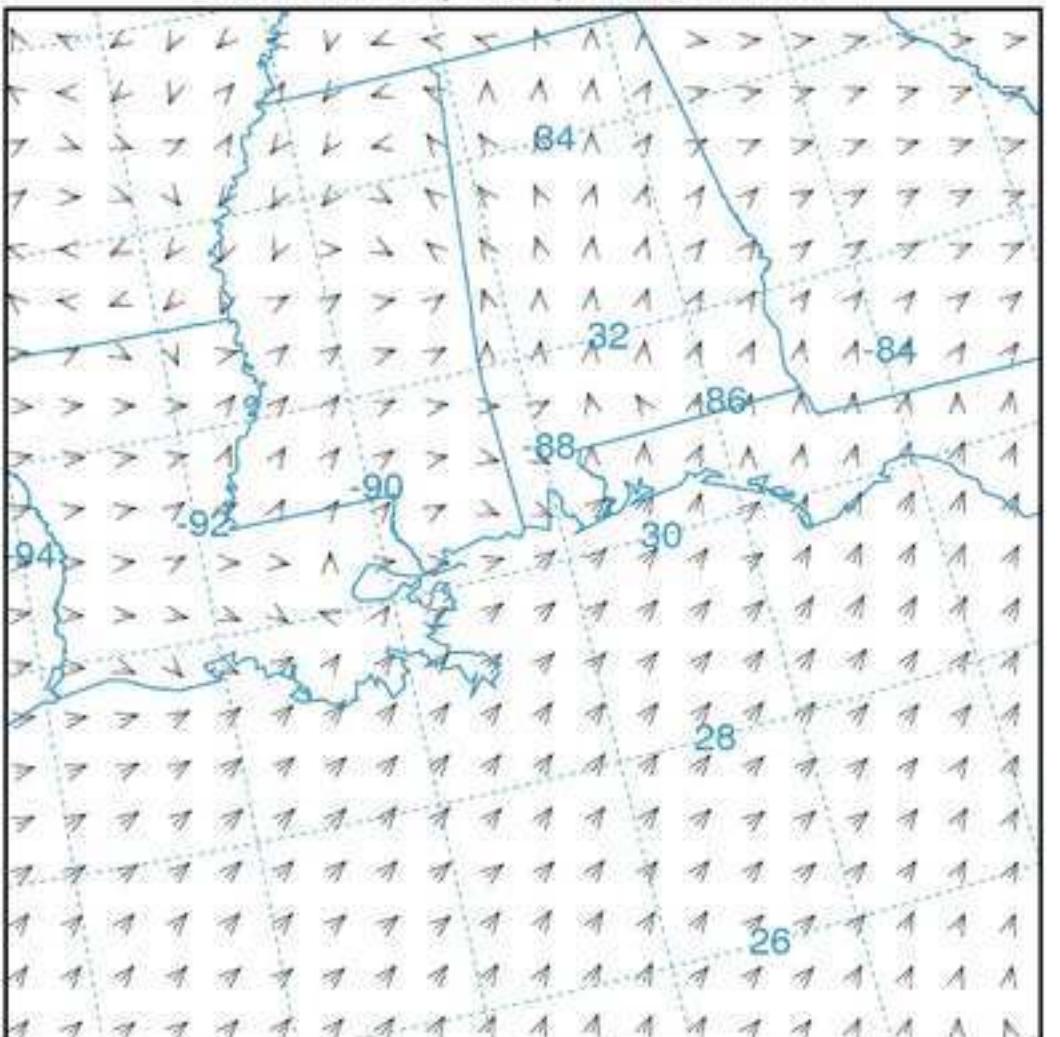


NOAA HYSPLIT MODEL
Backward trajectories ending at 0100 UTC 14 Aug 10
00 UTC 13 Aug NAMS Forecast Initialization



NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/14

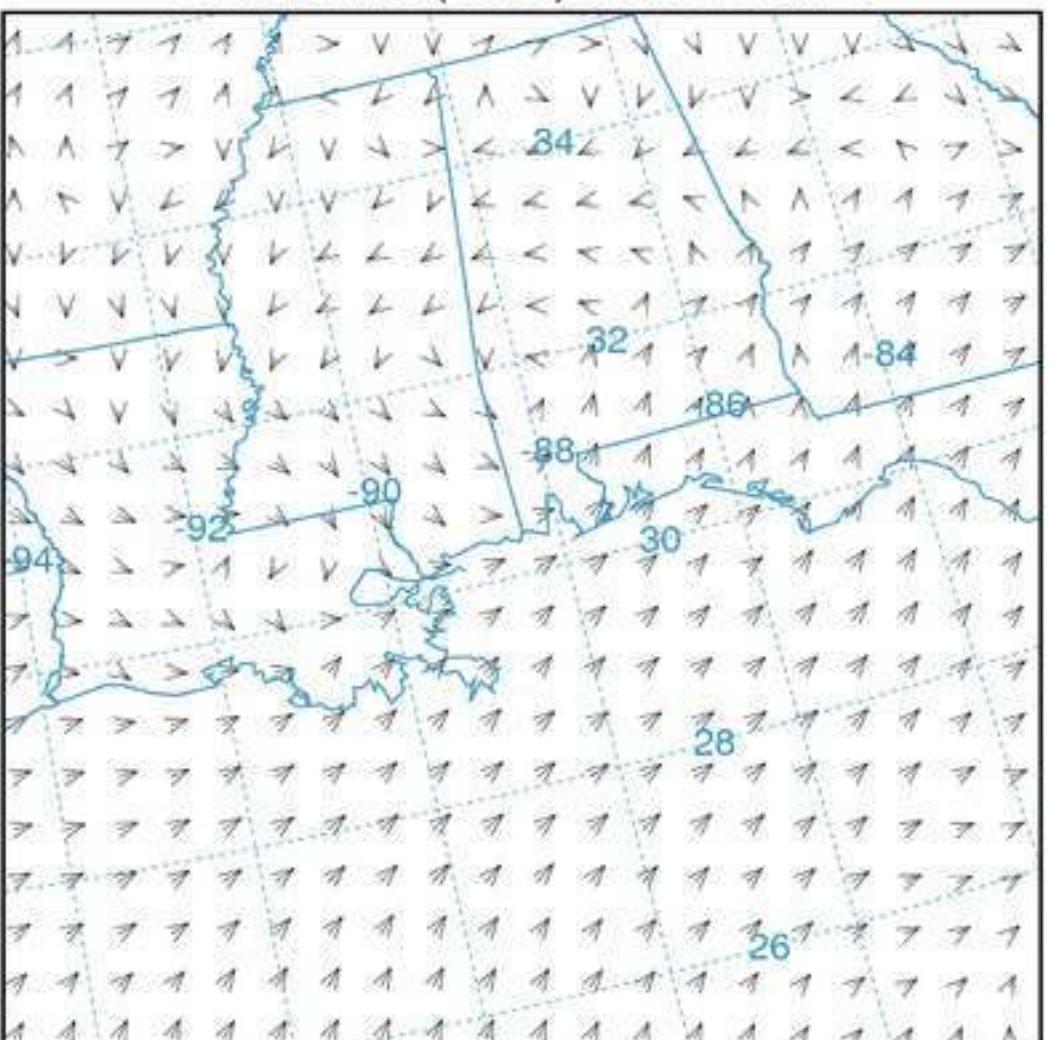


VECT (8) AT HEIGHT: 1.000

**Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/14

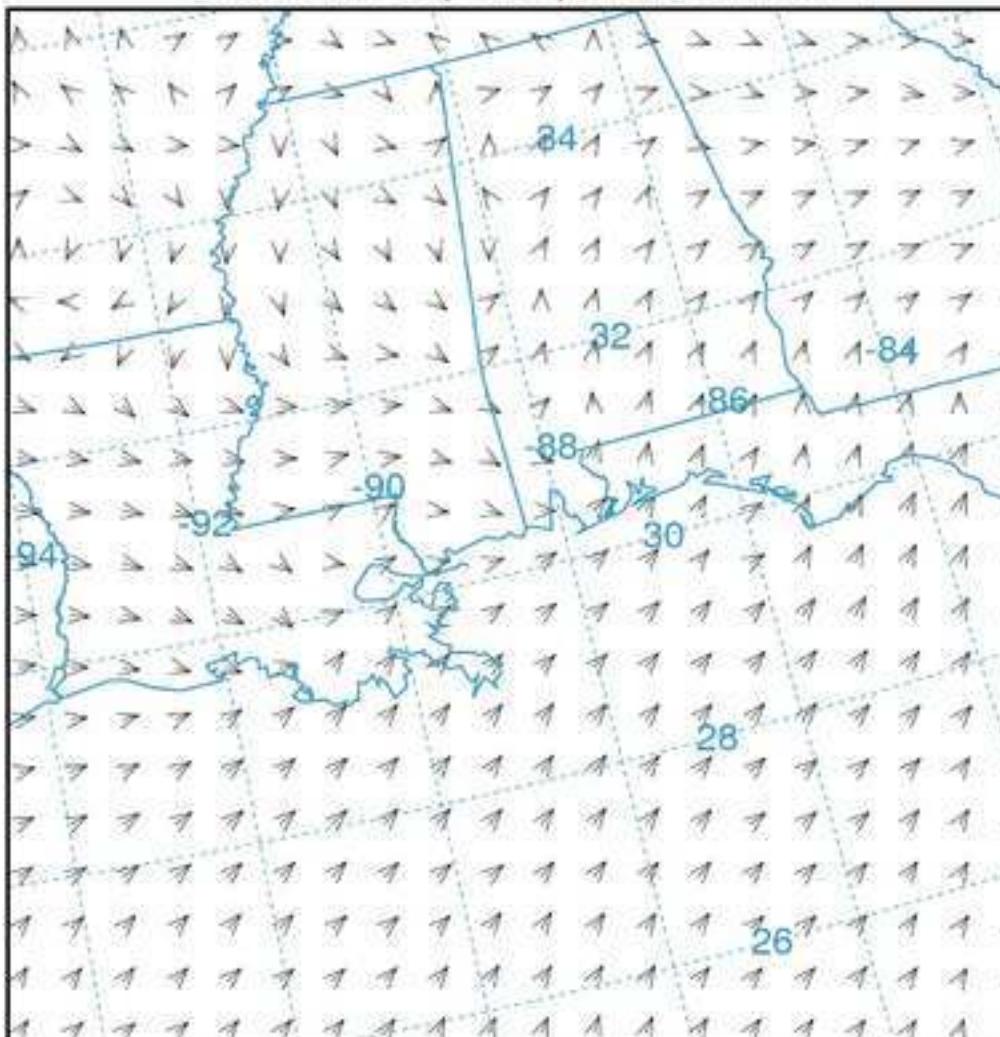


VECT (10) AT HEIGHT: 0.904

**Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/14

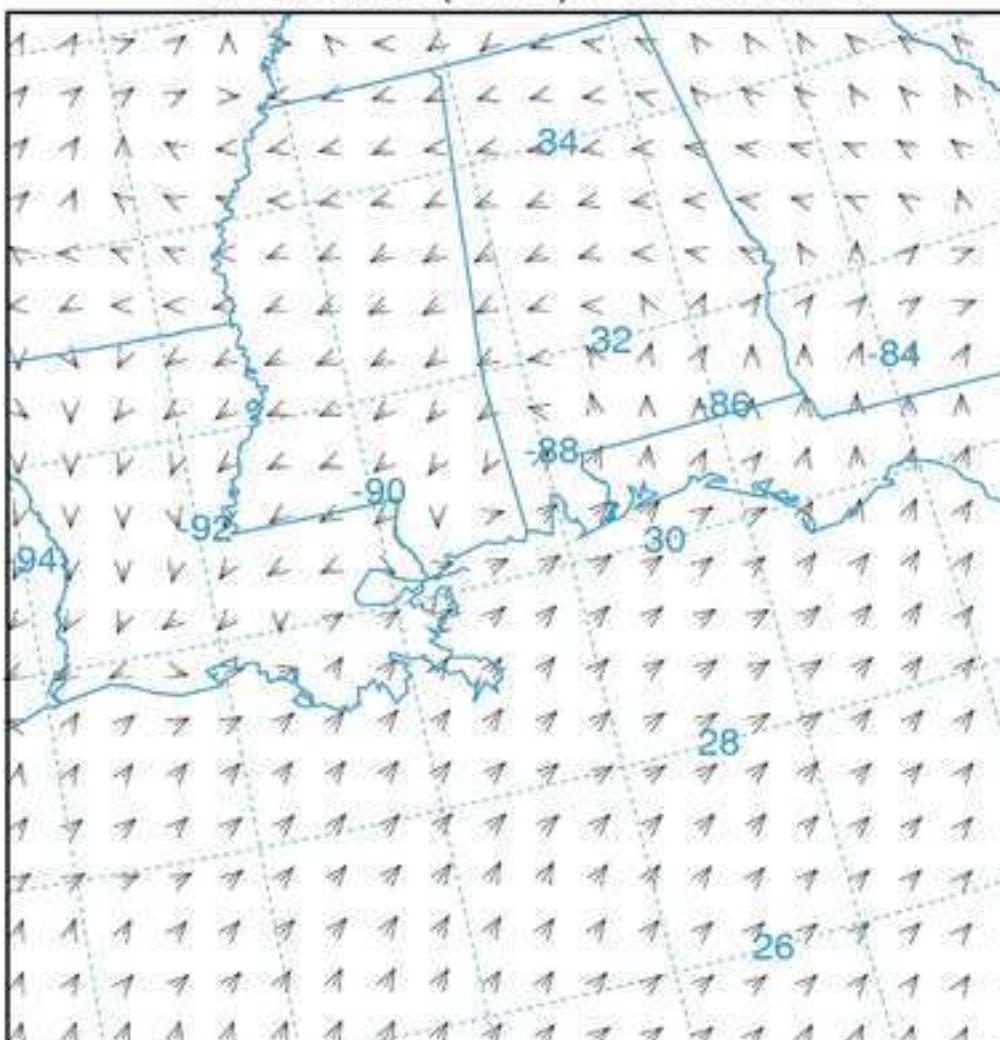


VECT (11) AT HEIGHT: 0.963

**Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/14

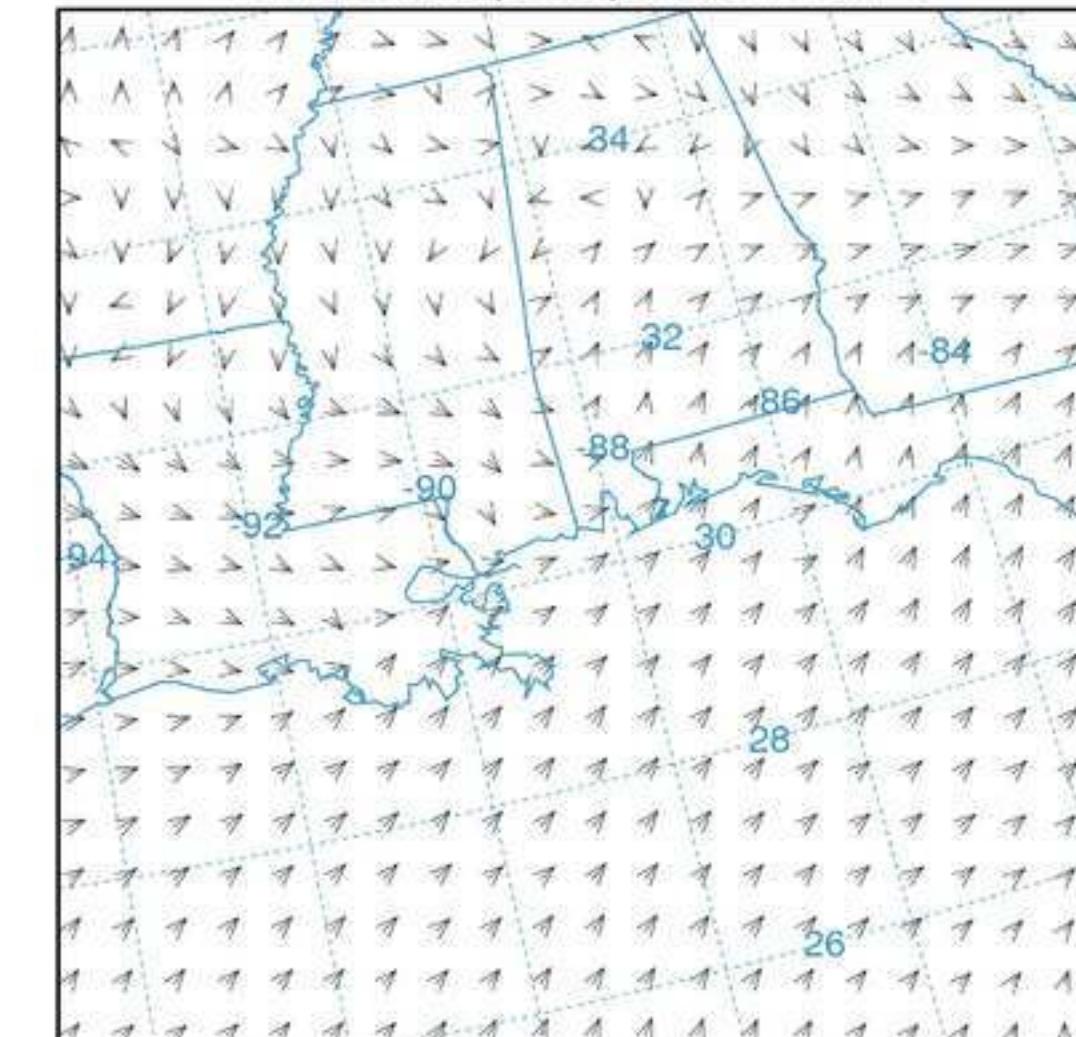


VECT (10) AT HEIGHT: 0.826

**Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/14

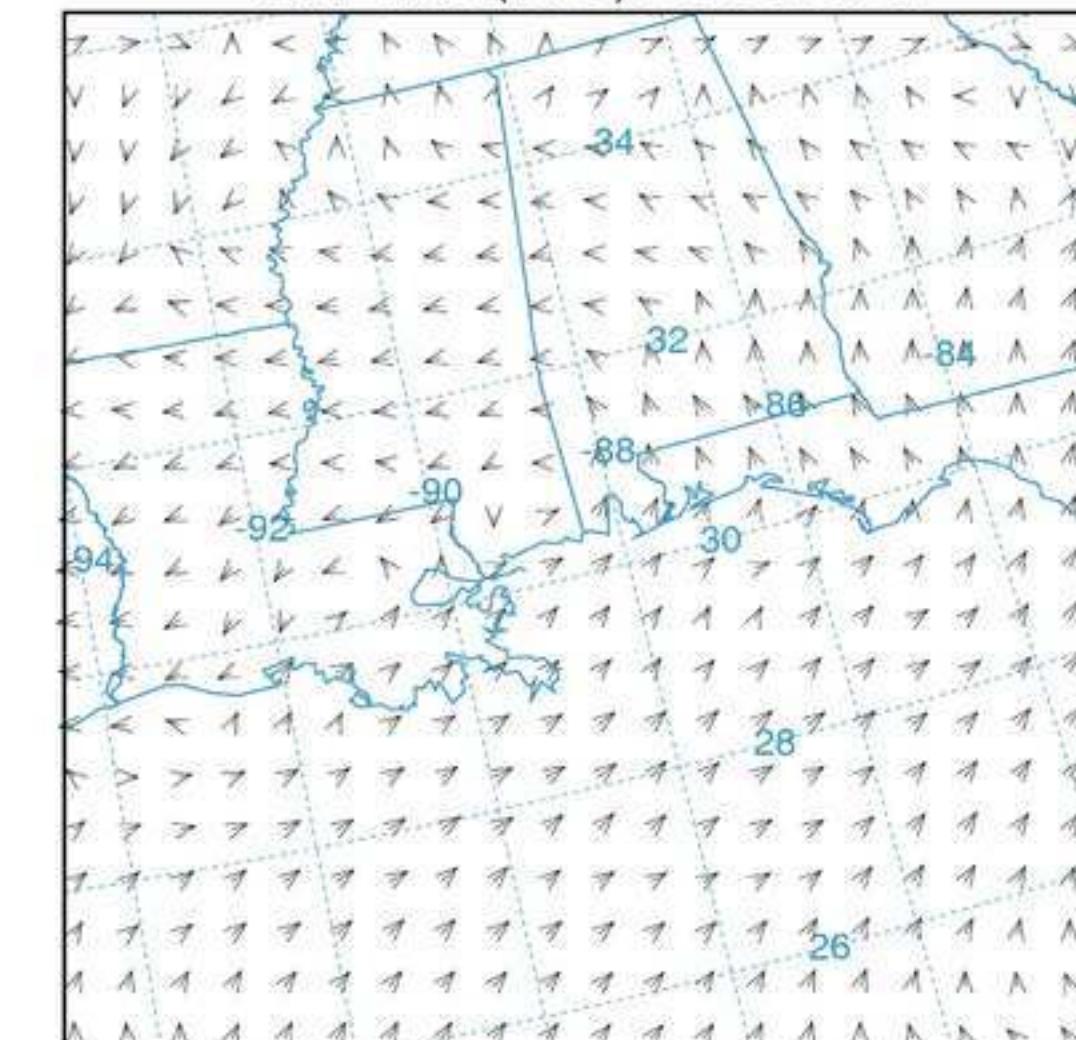


VECT (11) AT HEIGHT: 0.940

**Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/14

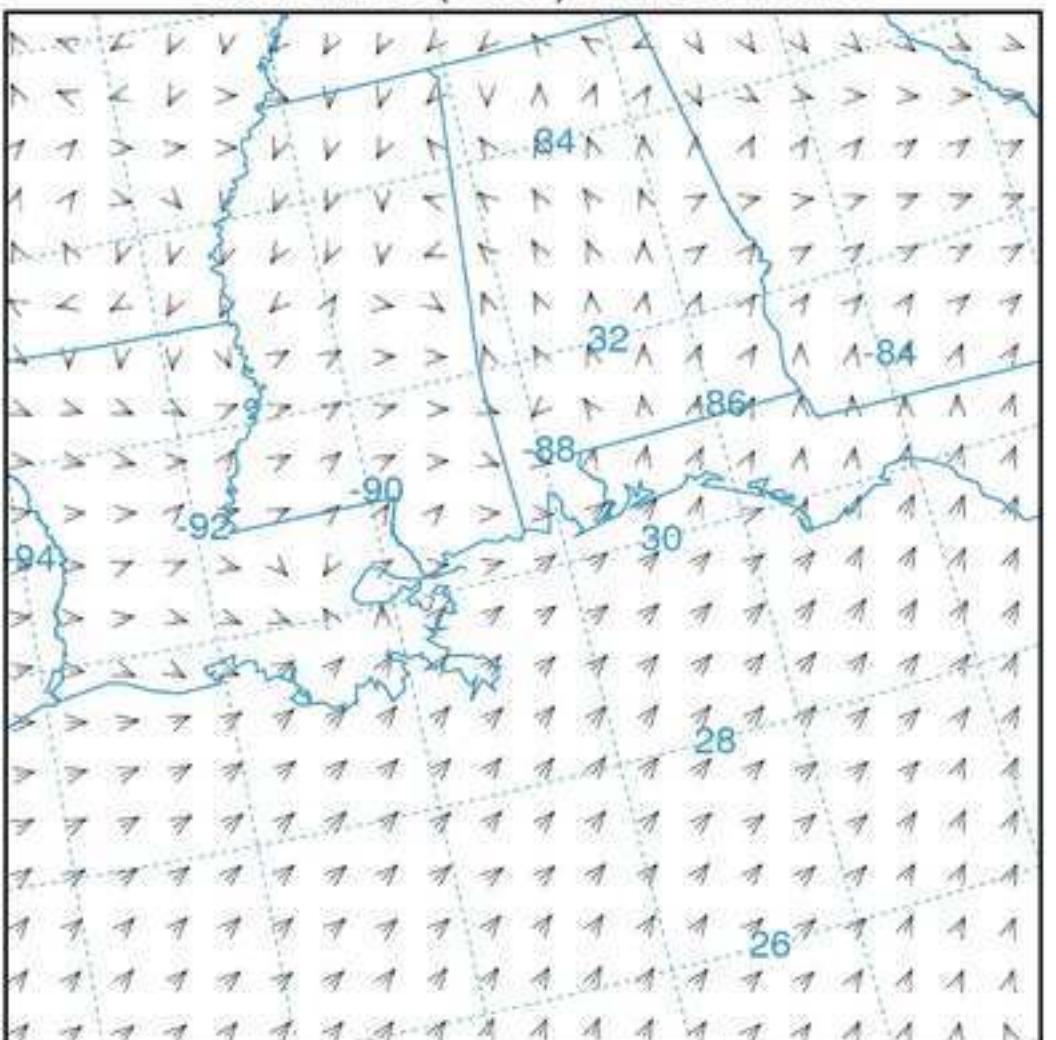


VECT (8) AT HEIGHT: 0.718

**Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/15

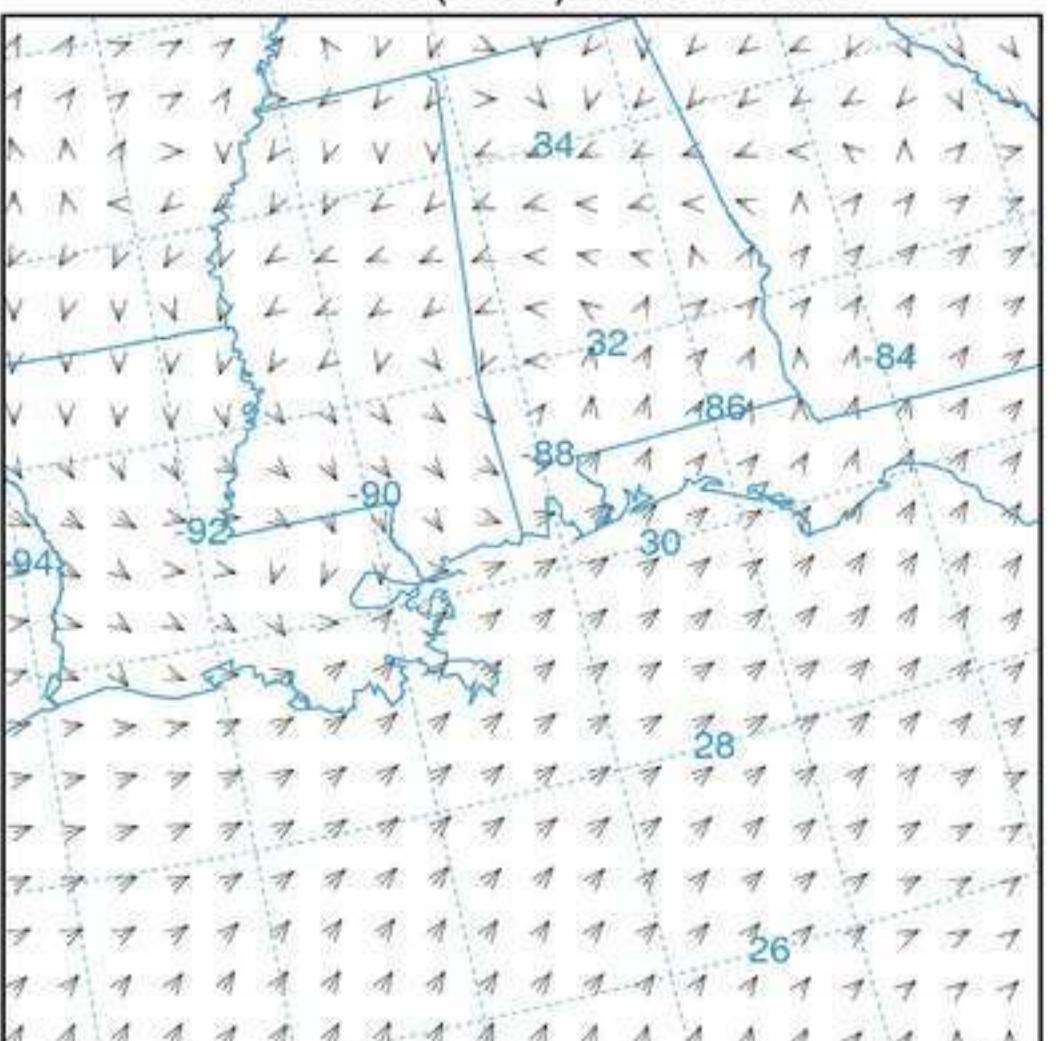


VECT (8) AT HEIGHT: 1.000

**Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/15

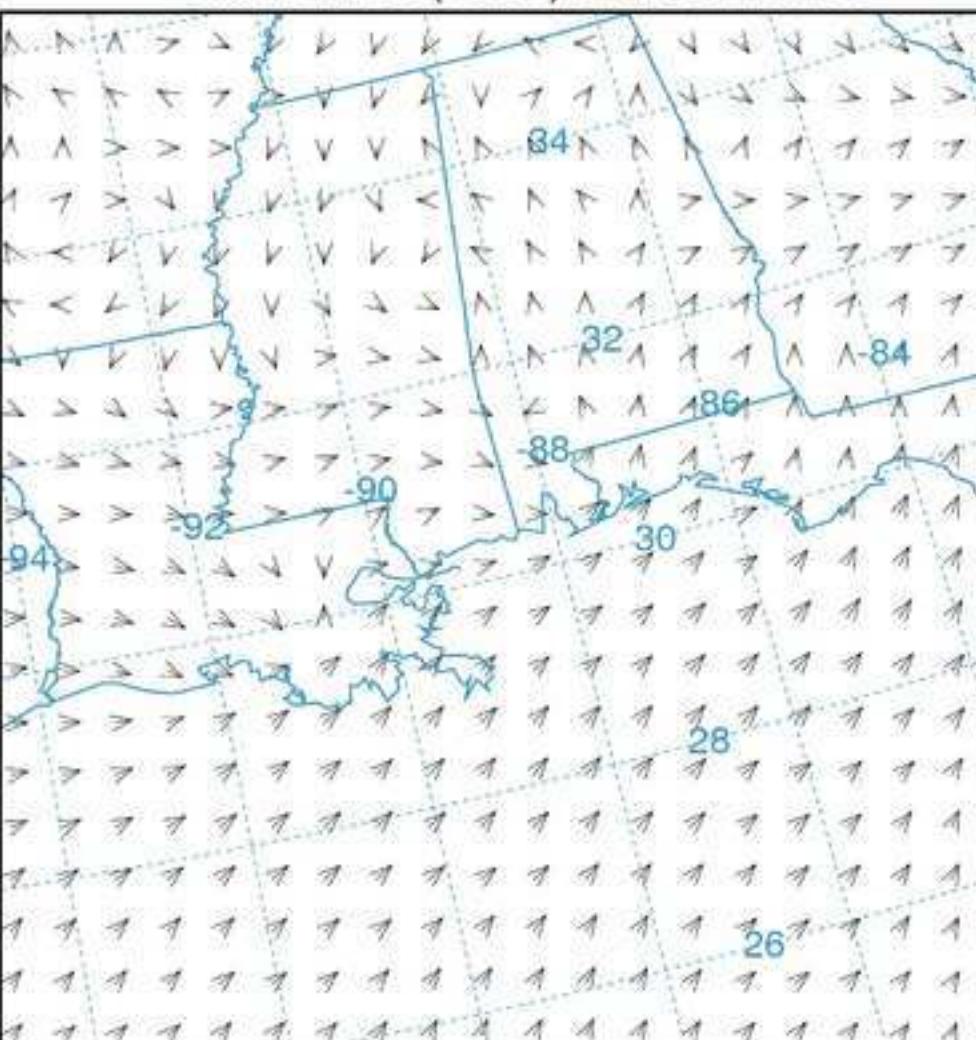


VECT (10) AT HEIGHT: 0.904

**Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/15

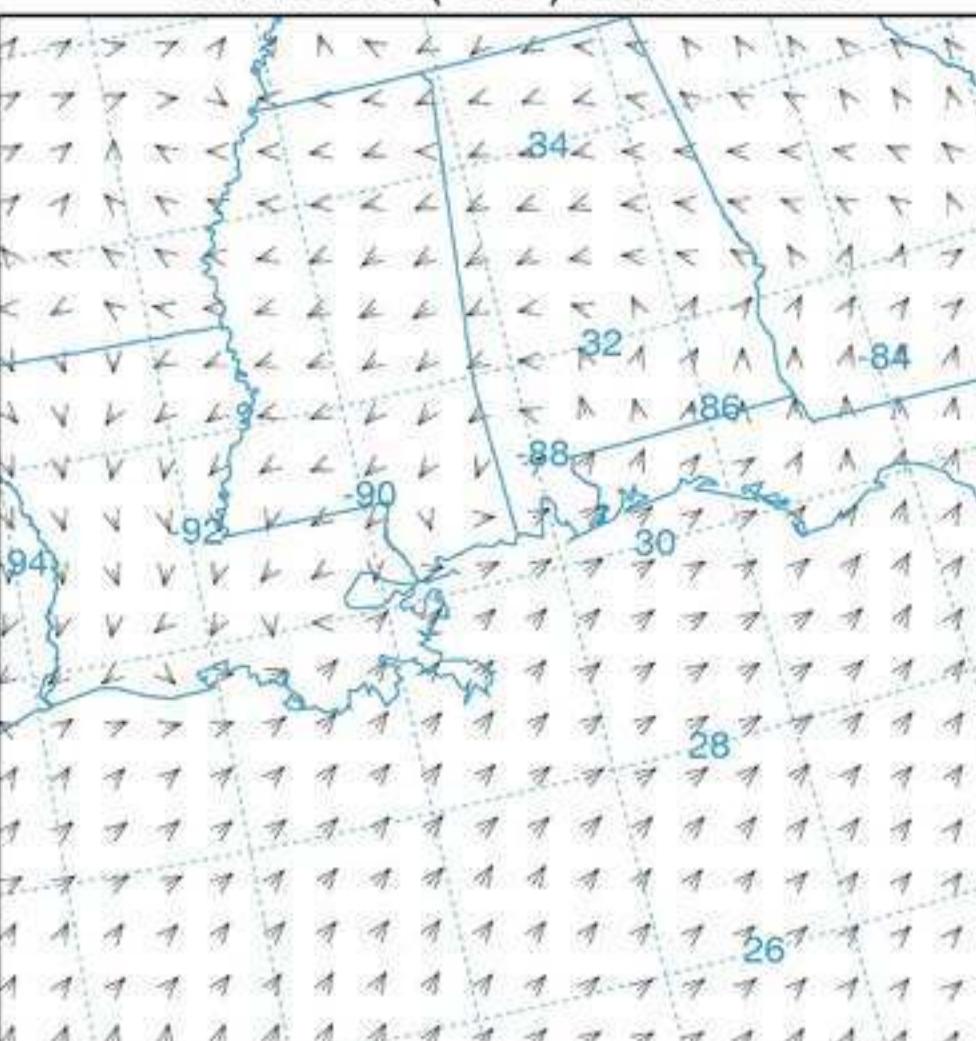


VECT (9) AT HEIGHT: 0.963

**Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/15

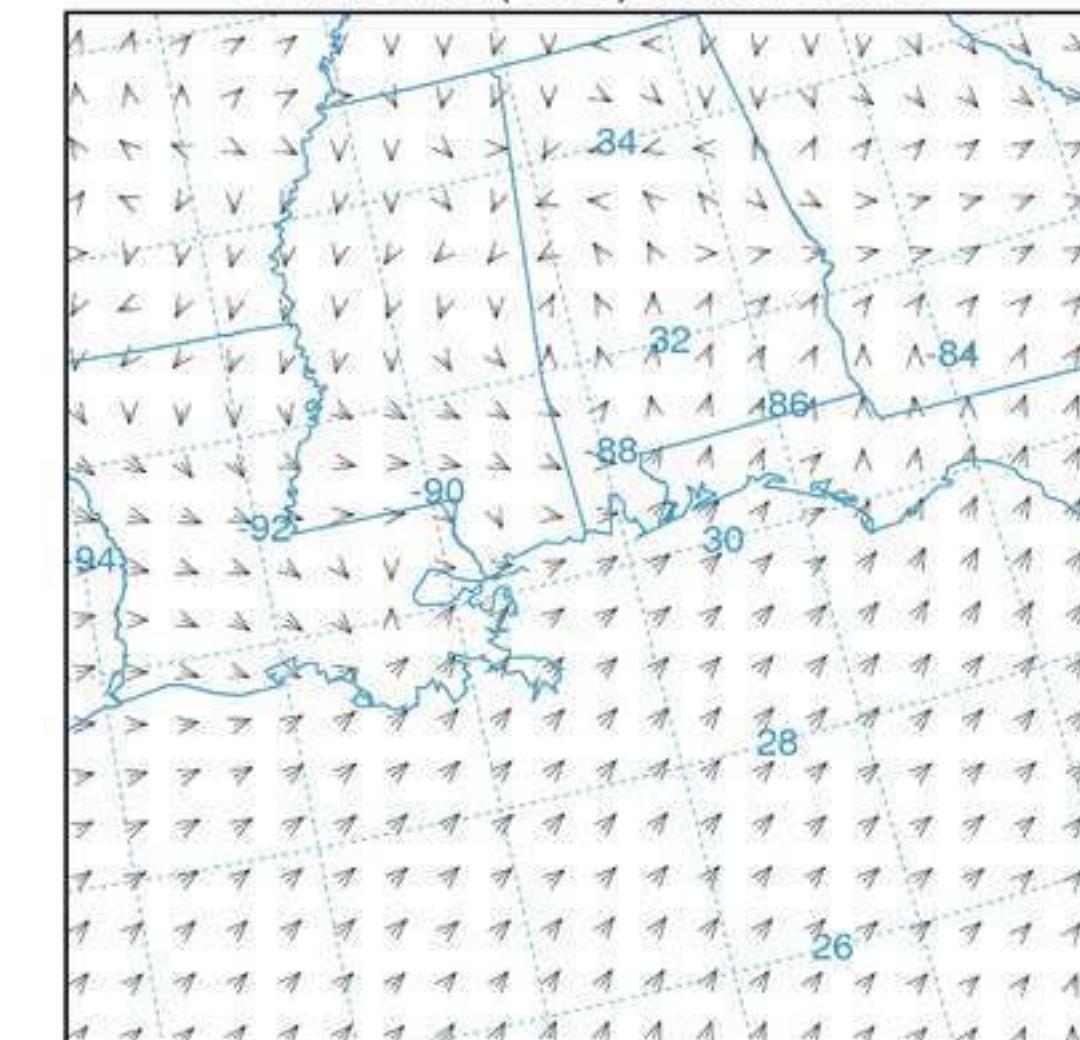


VECT (10) AT HEIGHT: 0.826

**Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/15

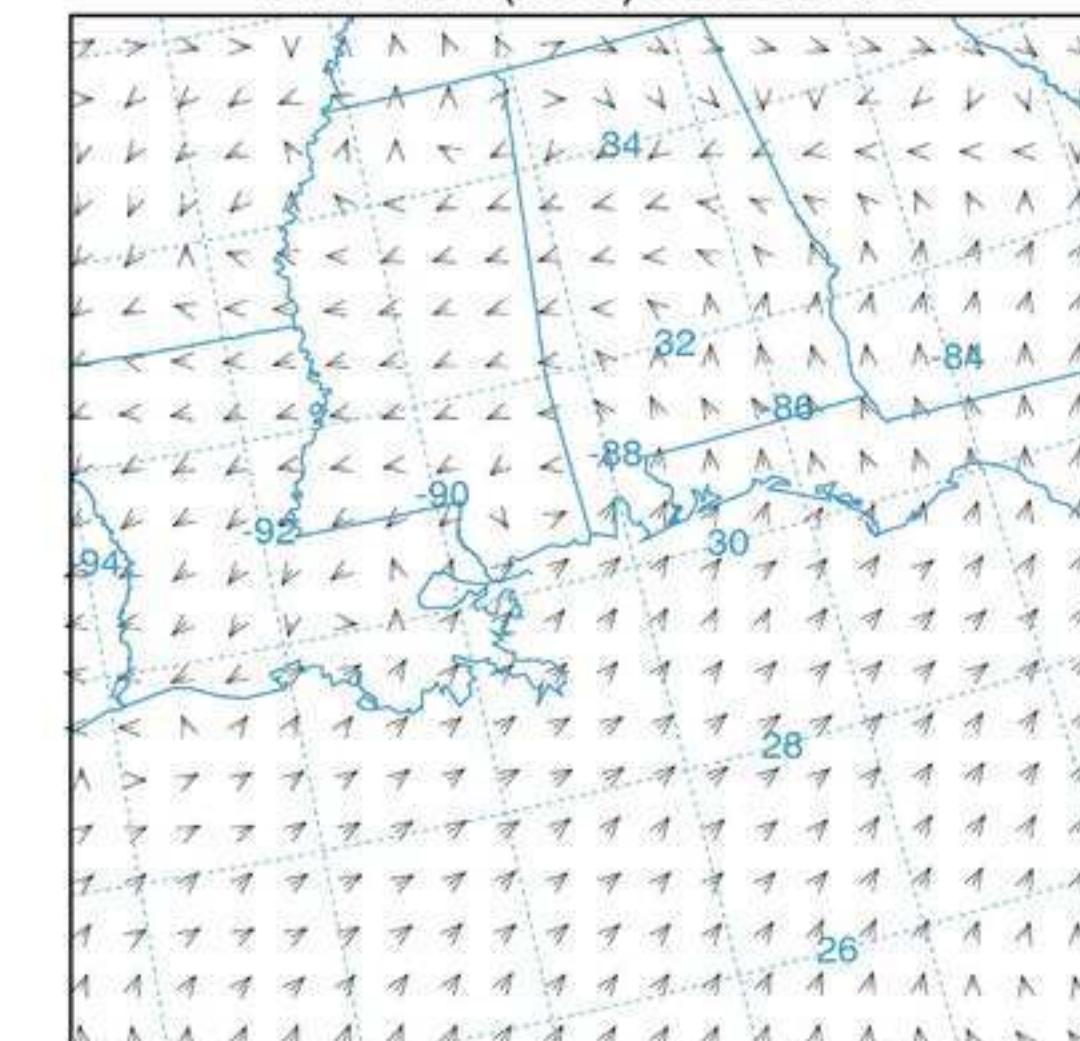


VECT (9) AT HEIGHT: 0.940

**Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/15

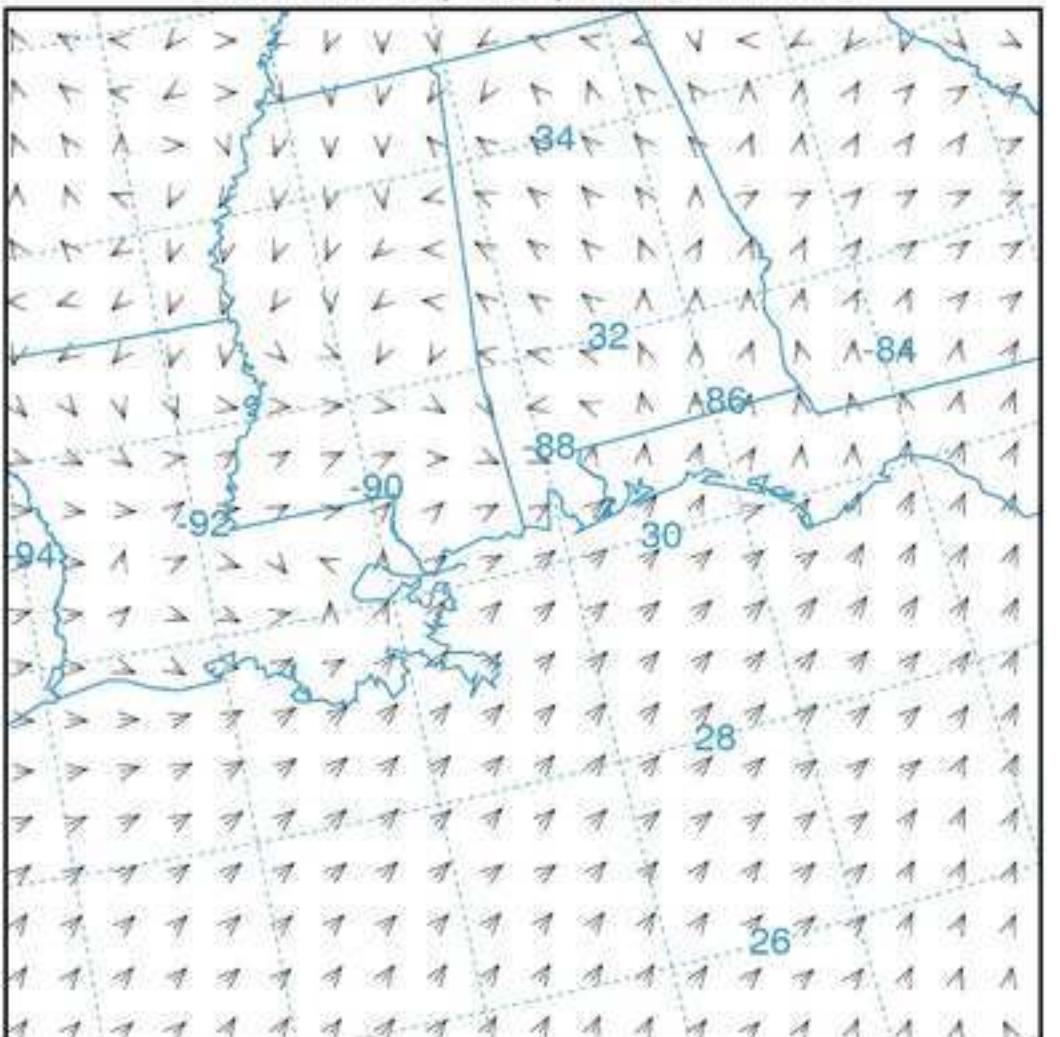


VECT (8) AT HEIGHT: 0.718

**Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/16

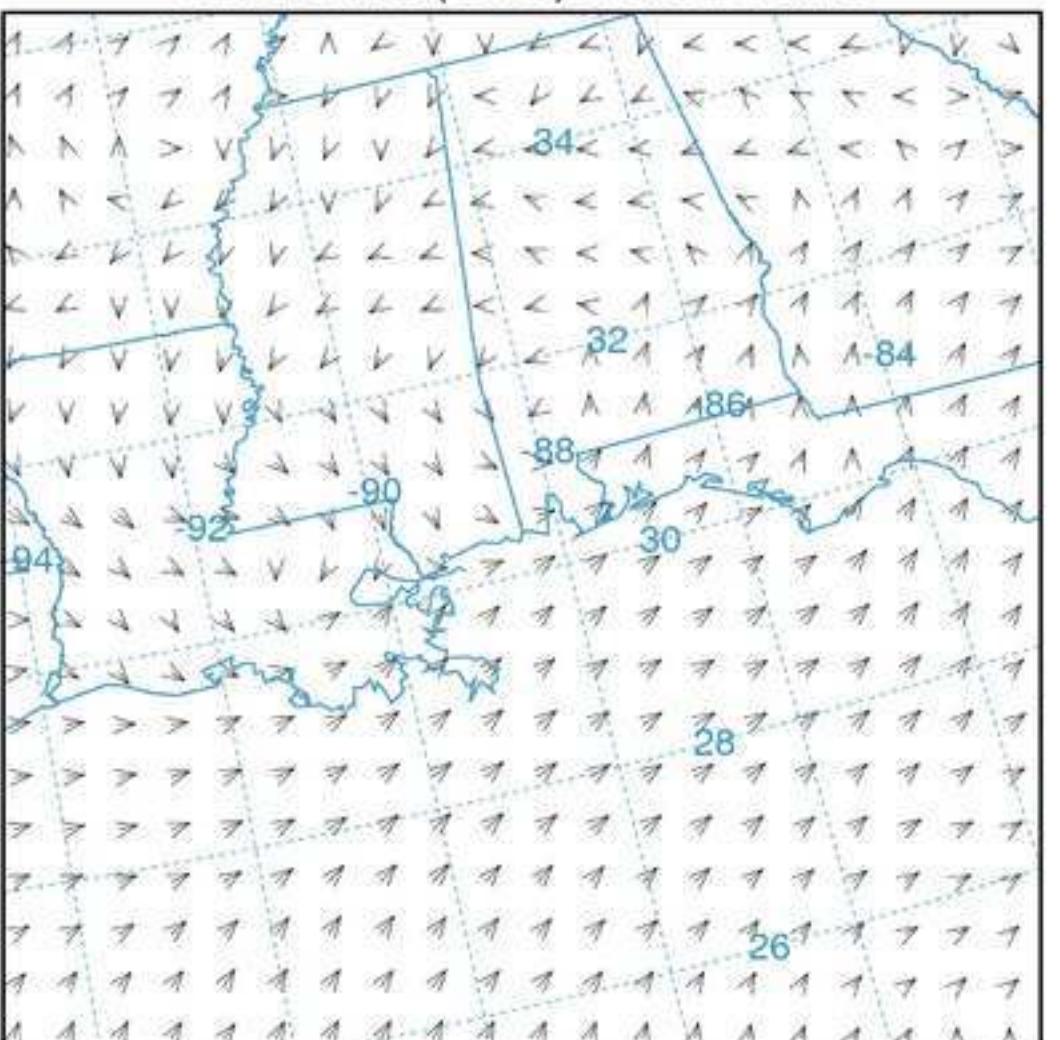


VECT (8) AT HEIGHT: 1.000

**Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/16

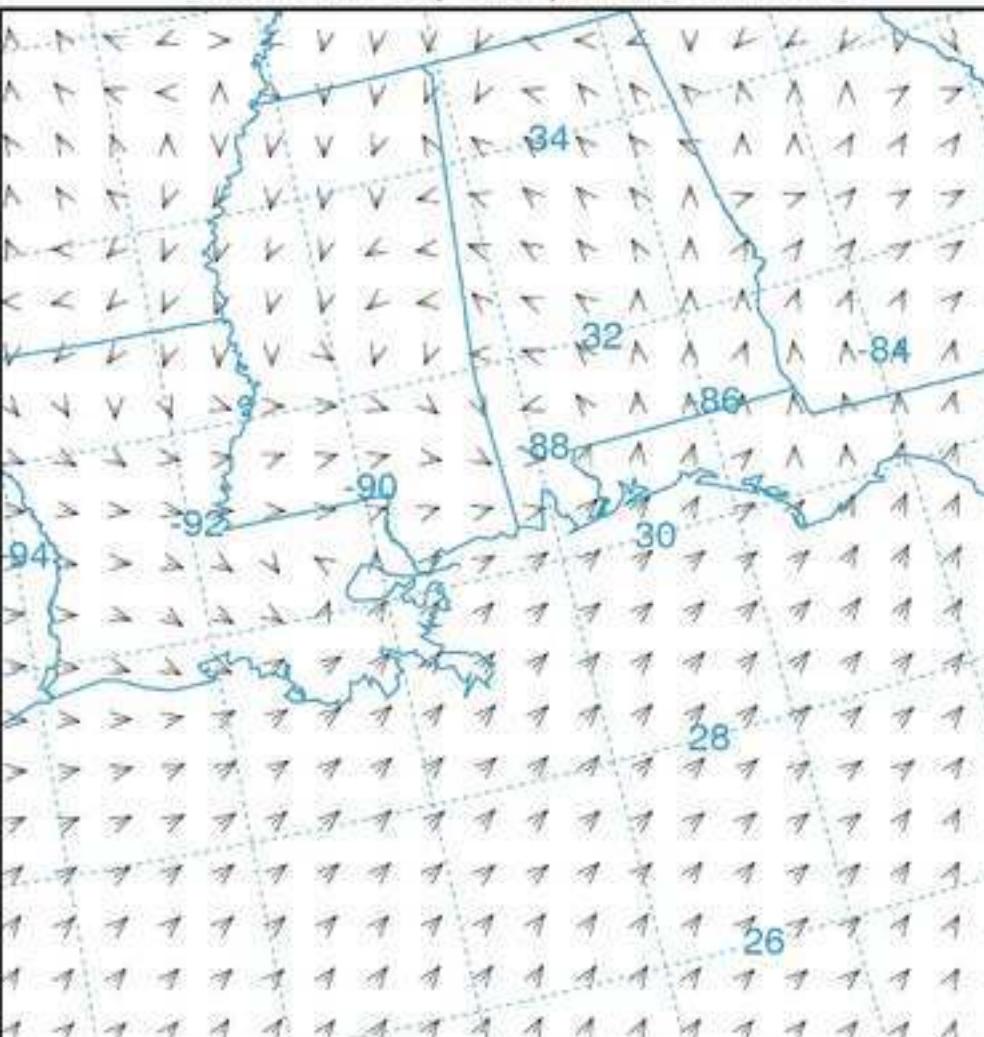


VECT (10) AT HEIGHT: 0.904

**Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/16

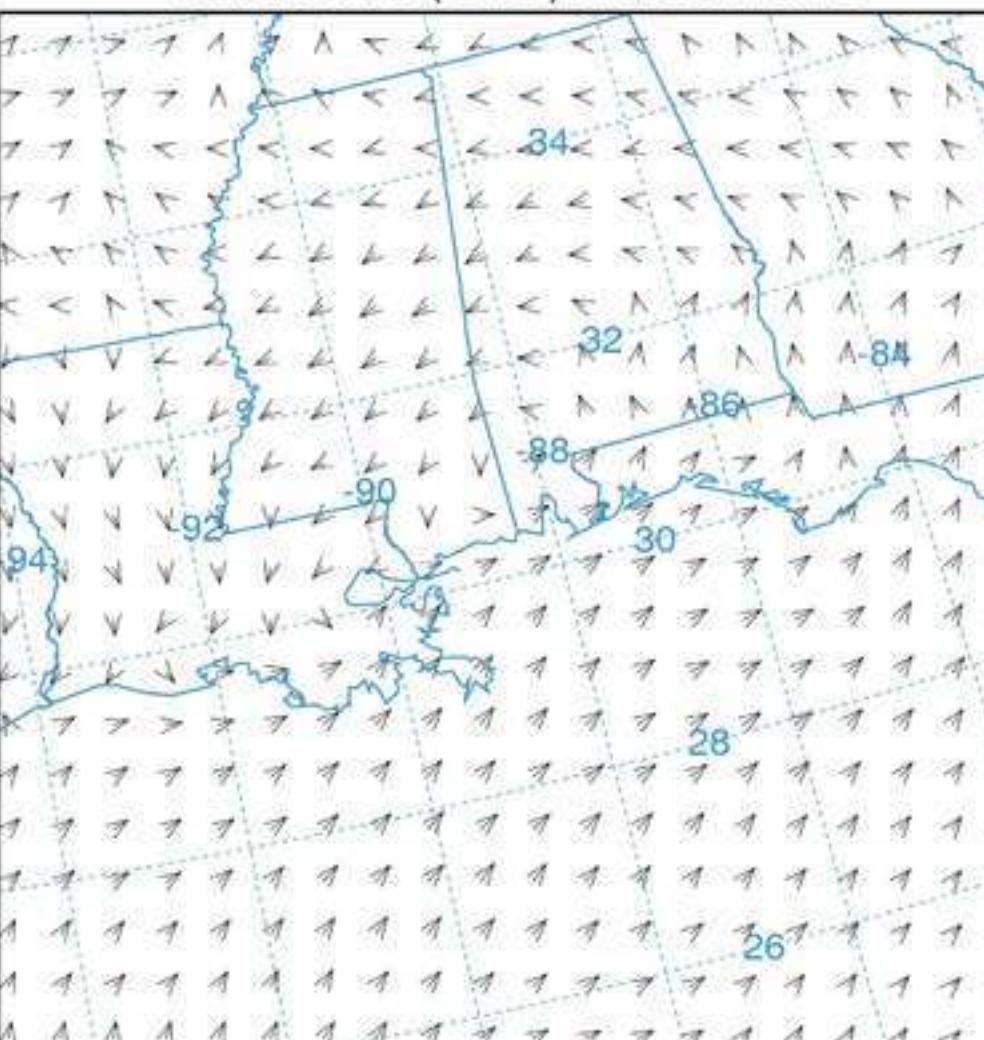


VECT (11) AT HEIGHT: 0.963

**Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/16

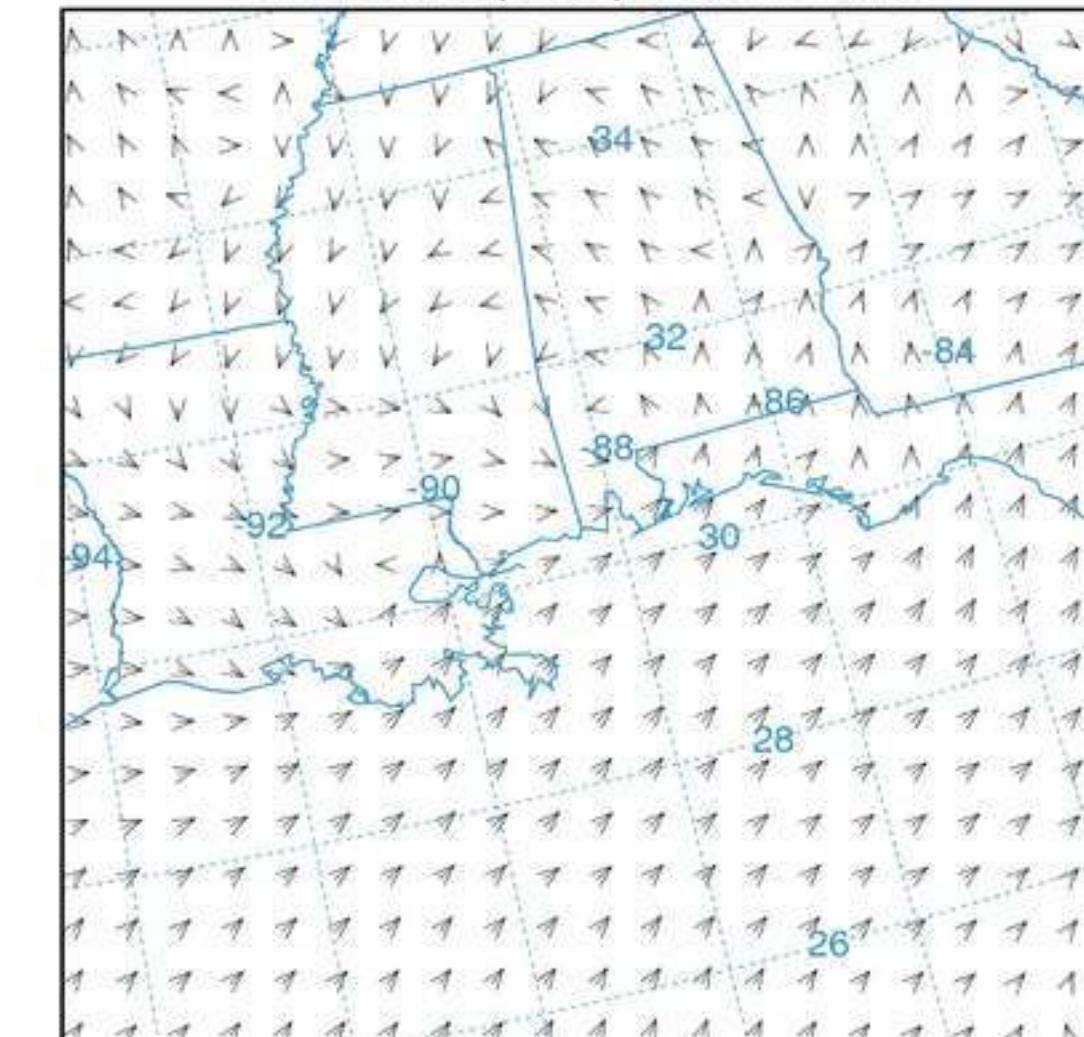


VECT (10) AT HEIGHT: 0.826

**Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/16

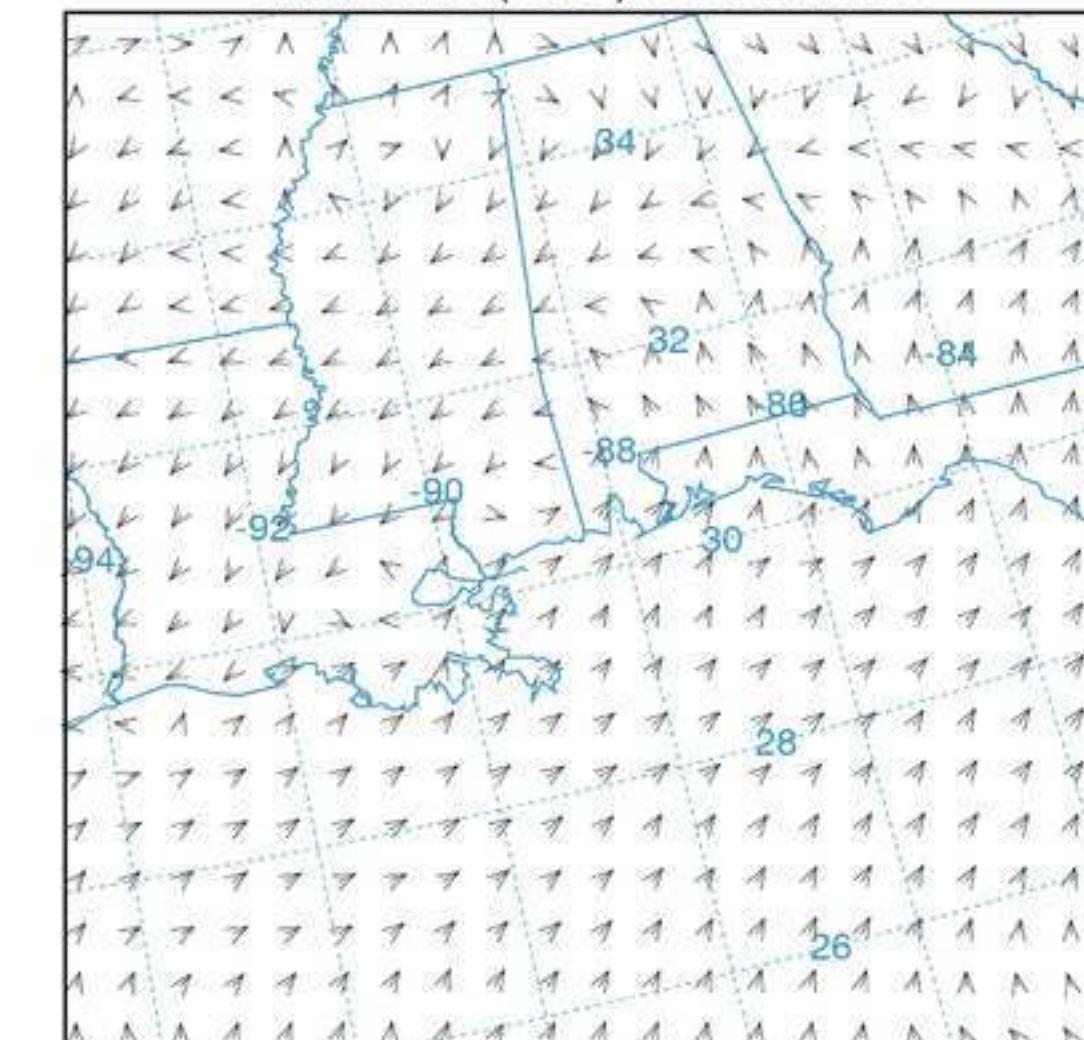


VECT (11) AT HEIGHT: 0.940

**Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/16

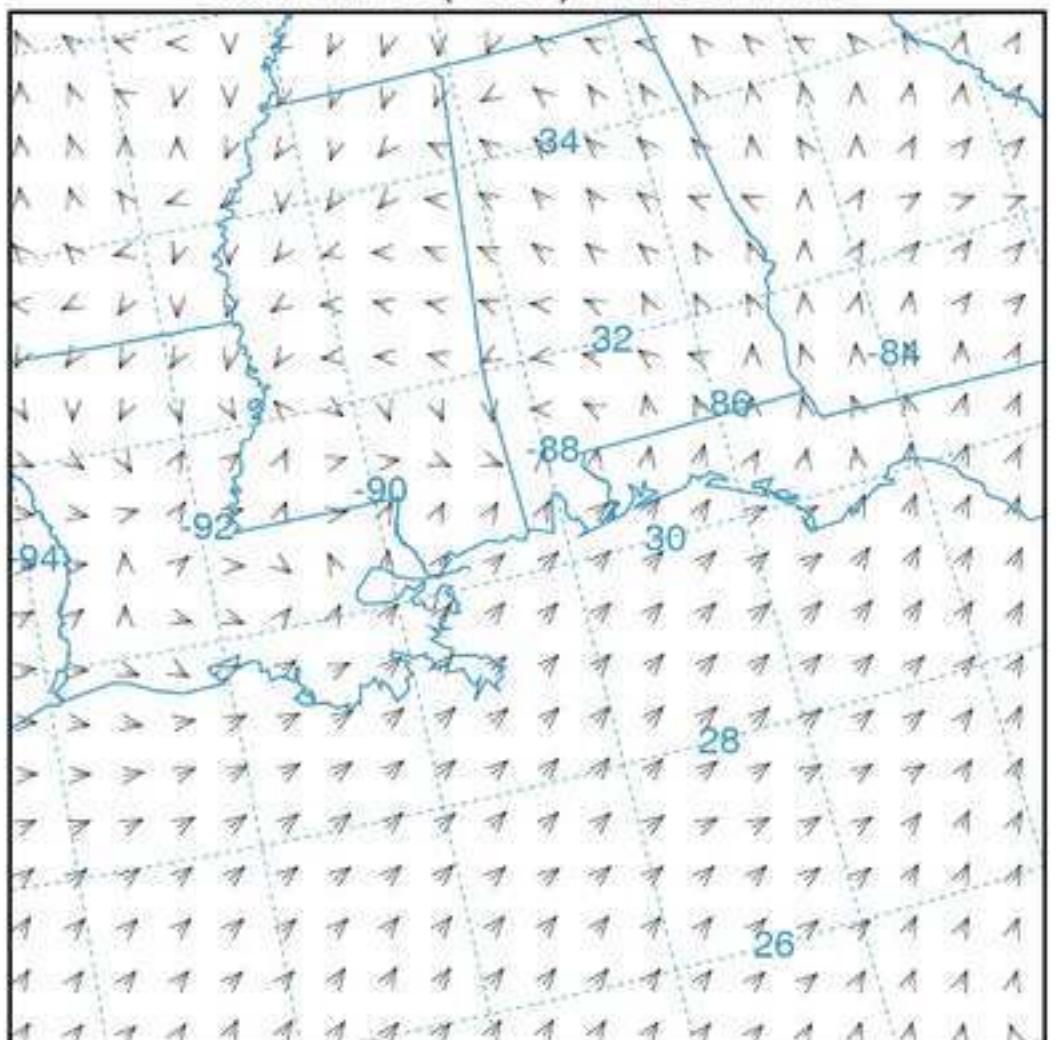


VECT (9) AT HEIGHT: 0.718

**Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/17

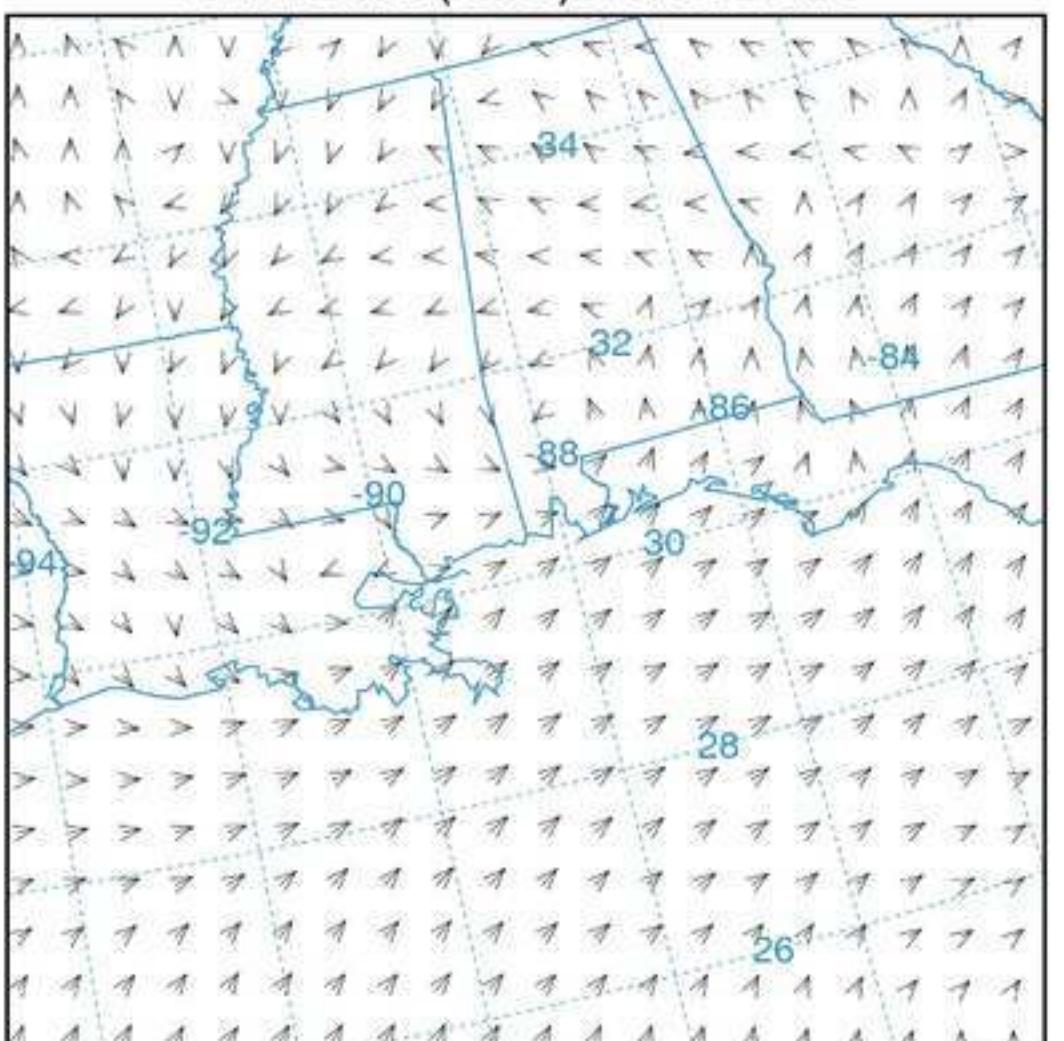


VECT (8) AT HEIGHT: 1.000

**Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/17

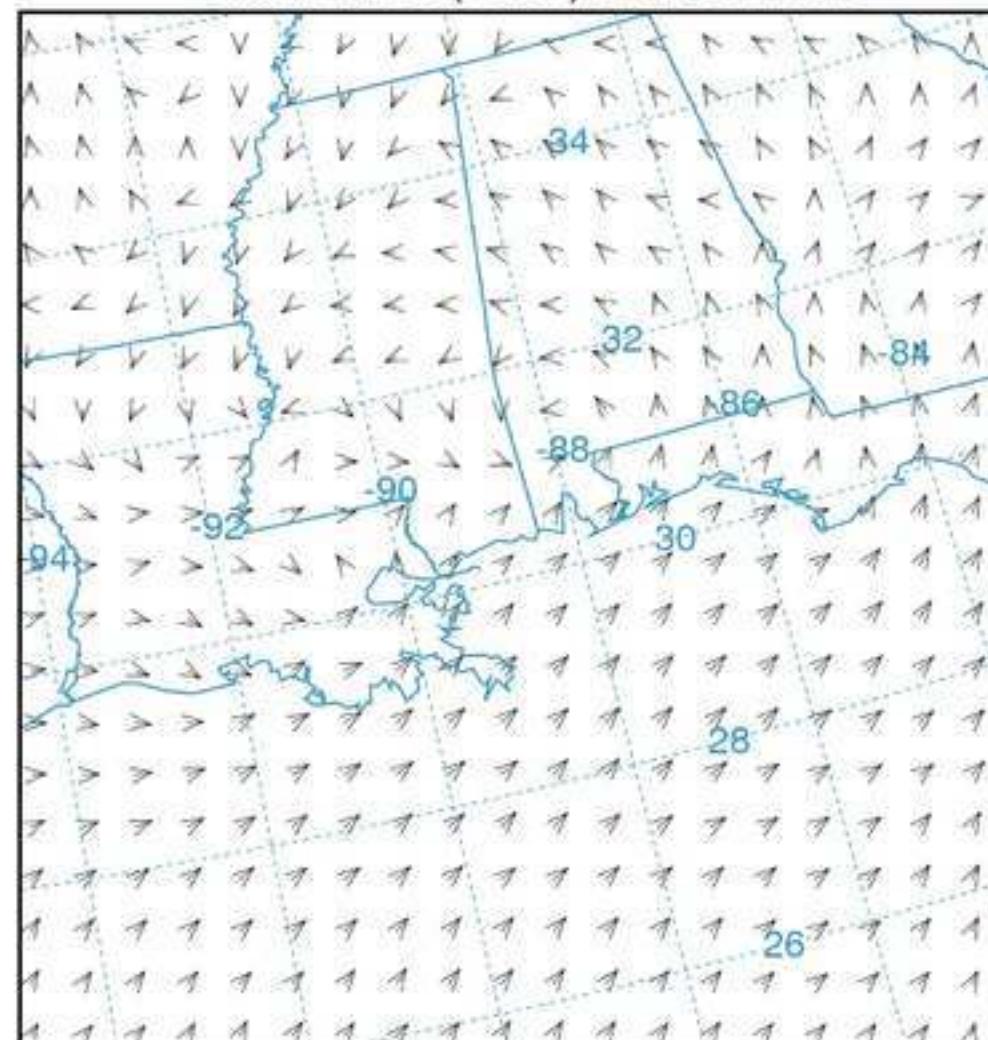


VECT (10) AT HEIGHT: 0.904

**Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/17

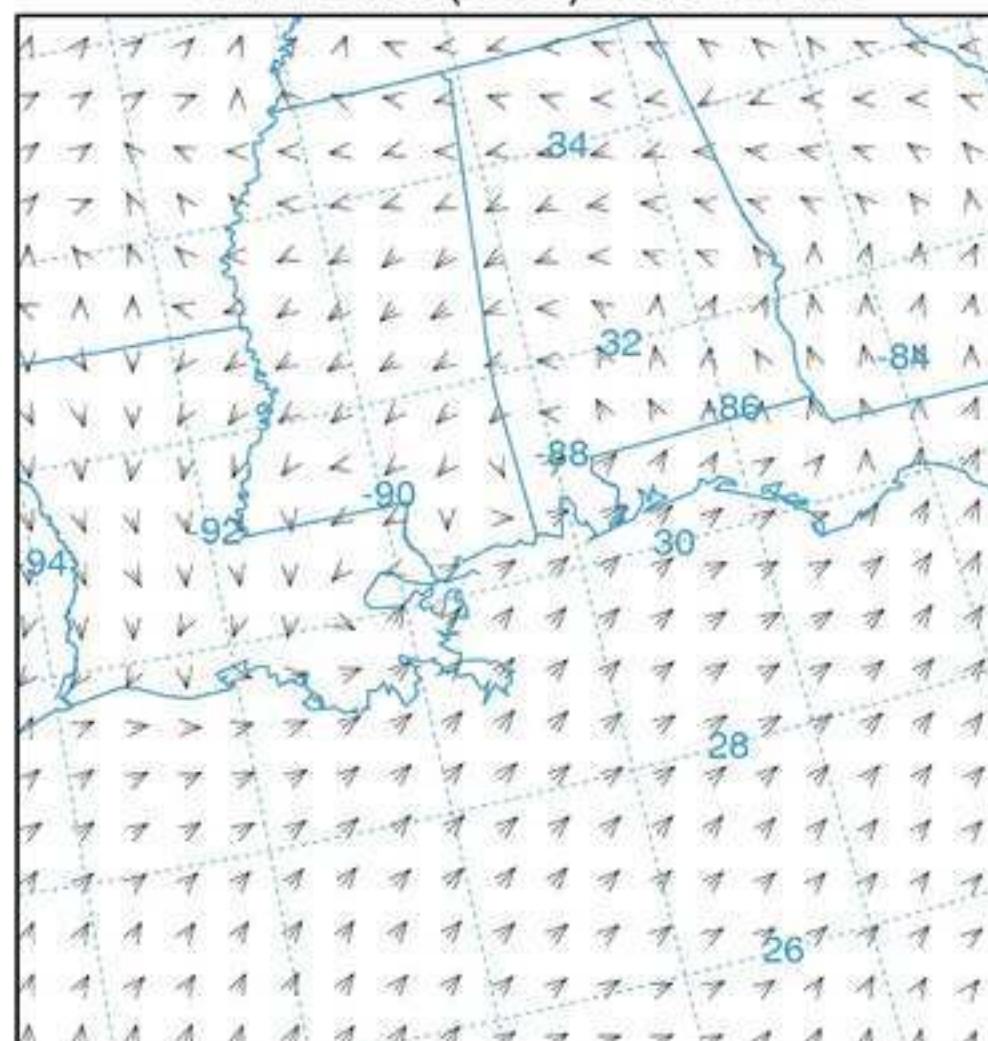


VECT (11) AT HEIGHT: 0.963

**Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/17

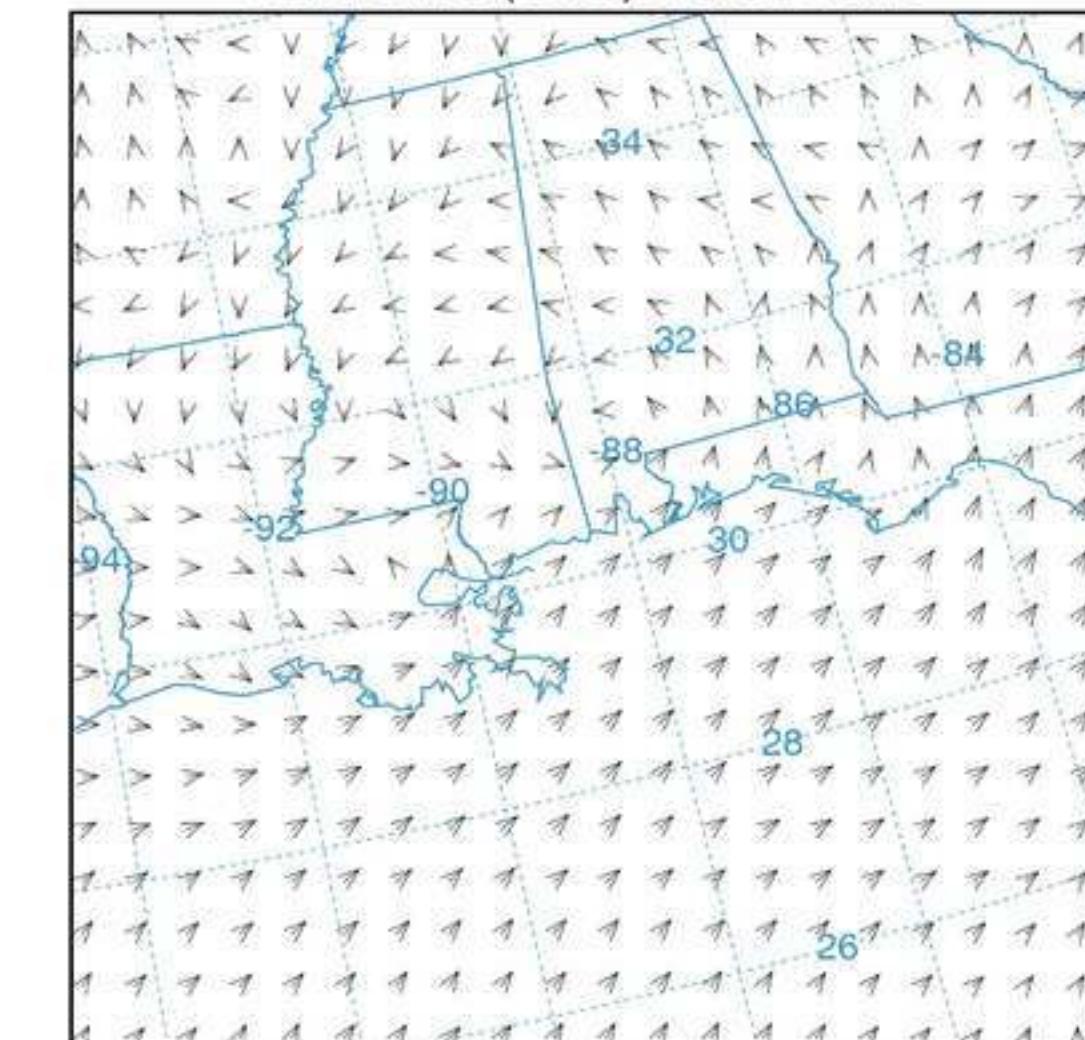


VECT (10) AT HEIGHT: 0.826

**Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/17

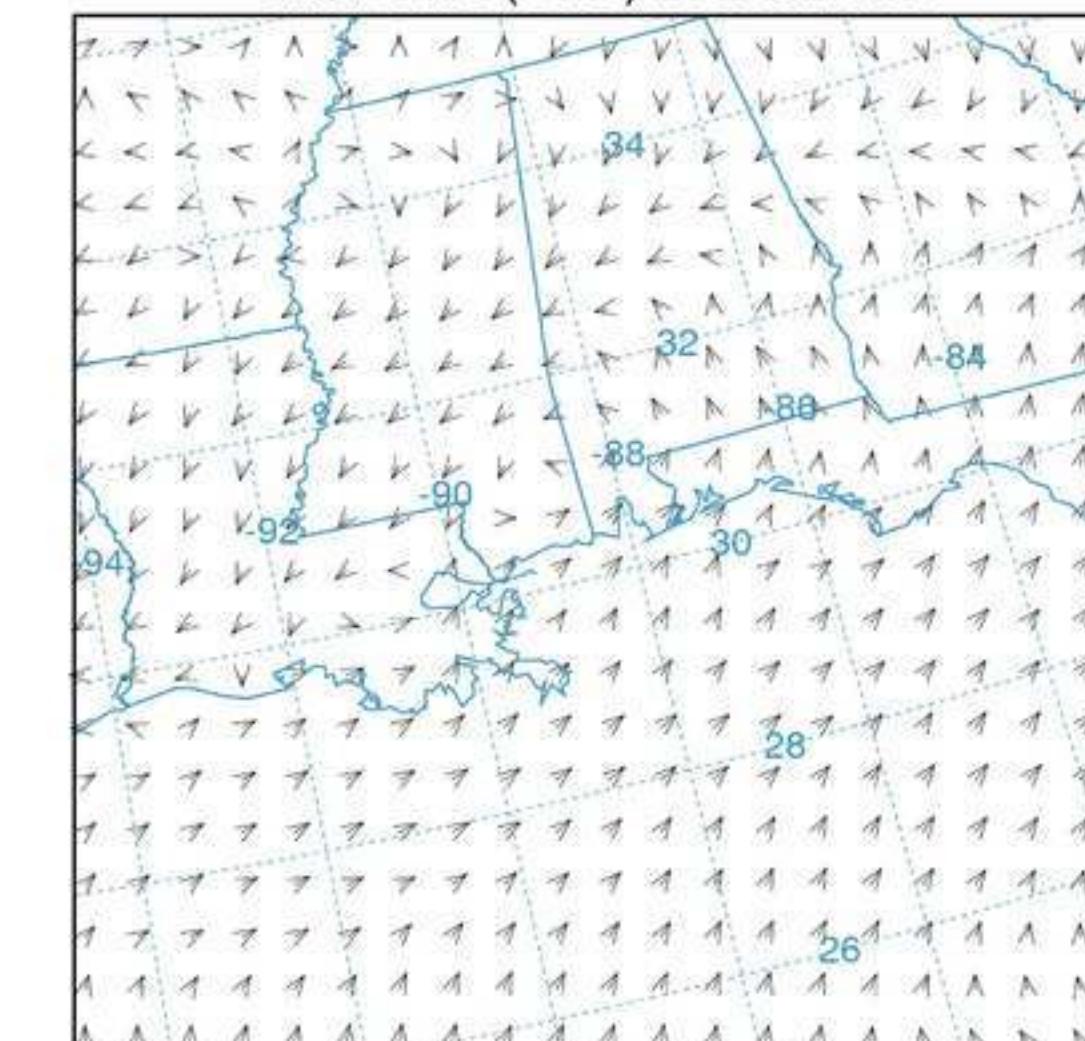


VECT (11) AT HEIGHT: 0.940

**Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/17

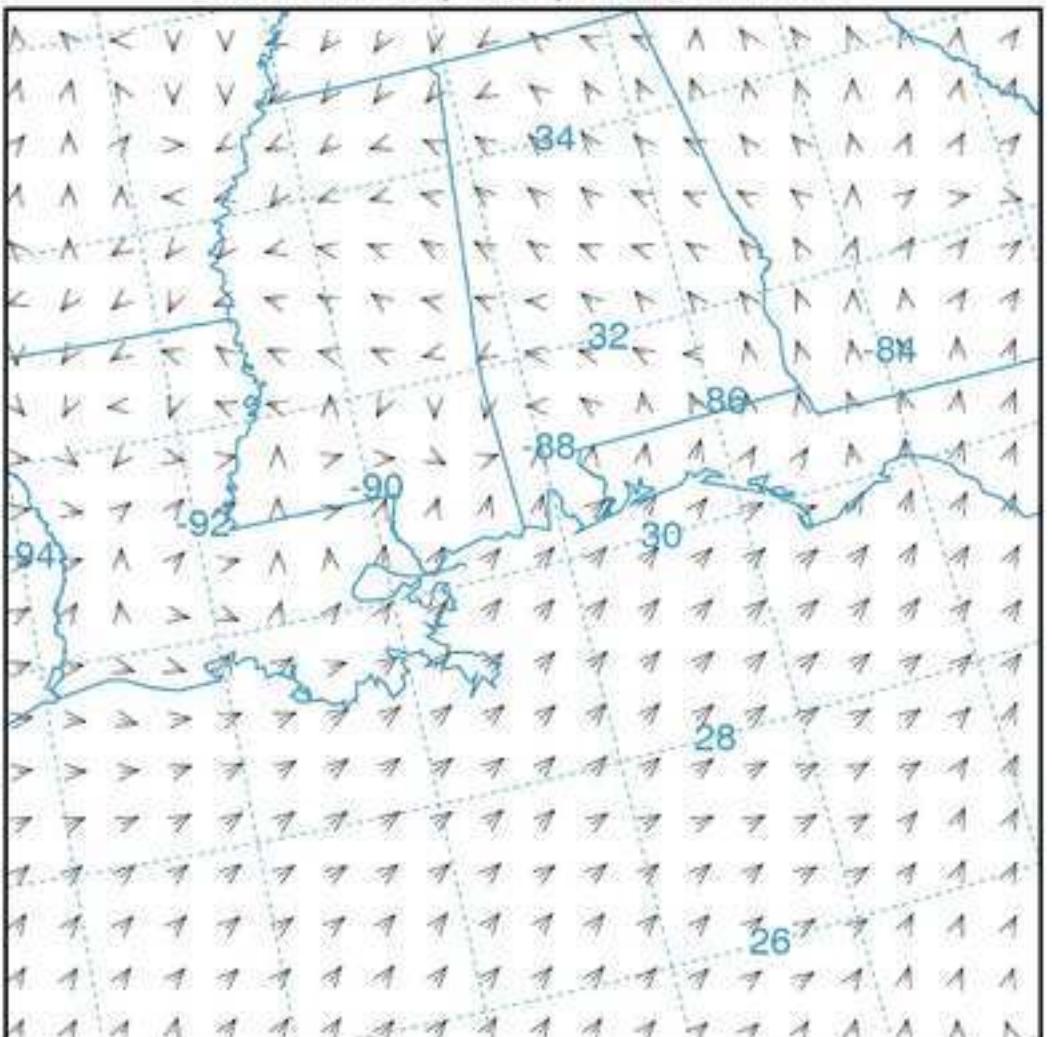


VECT (9) AT HEIGHT: 0.718

**Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/18

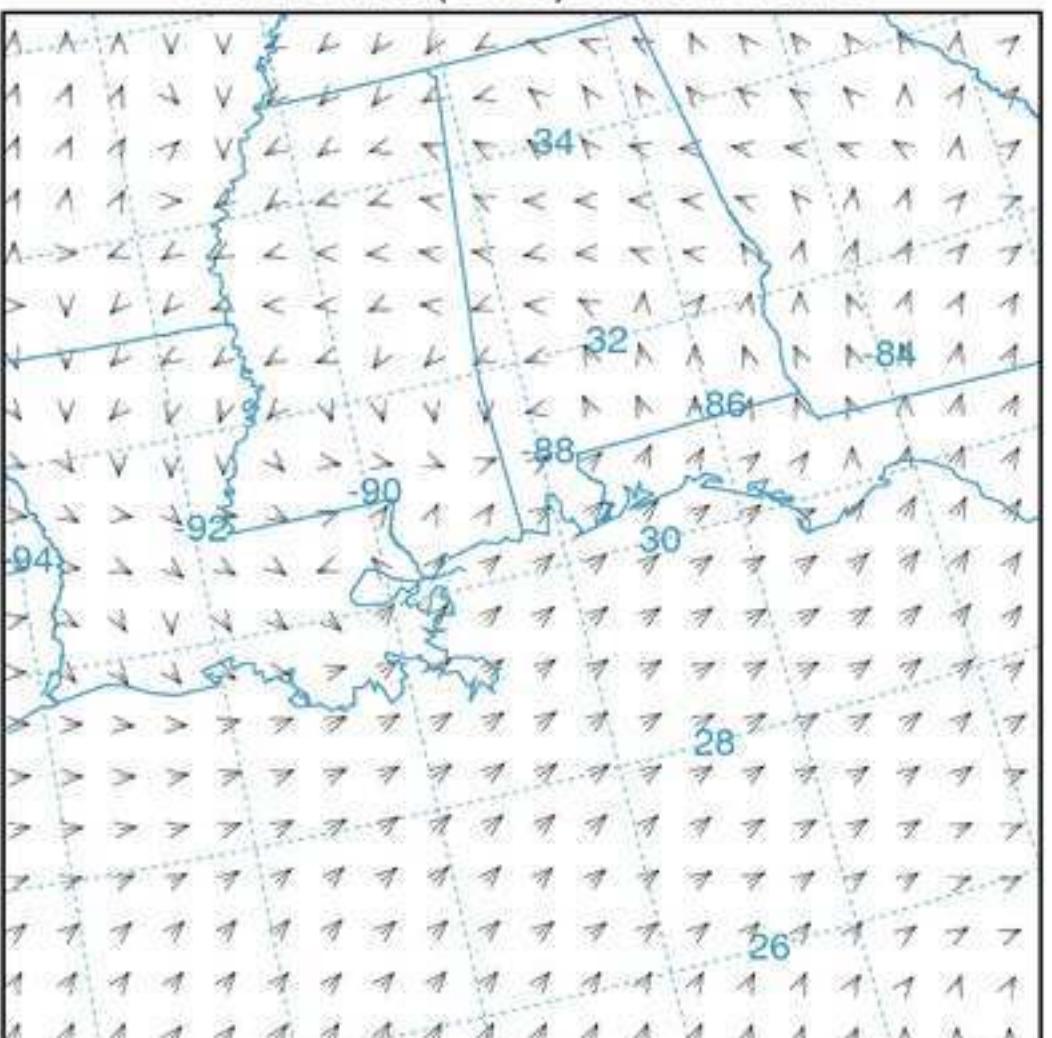


VECT (8) AT HEIGHT: 1.000

**Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/18

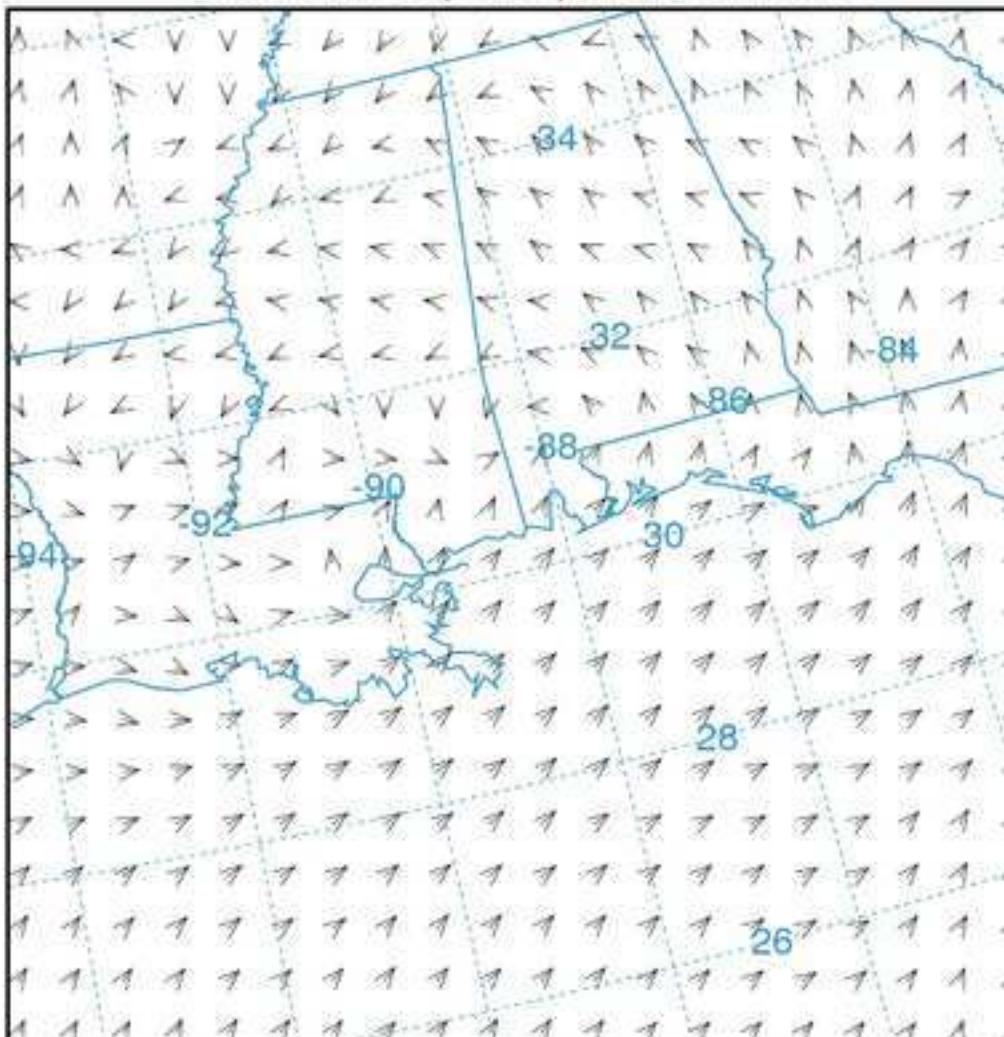


VECT (11) AT HEIGHT: 0.904

**Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/18

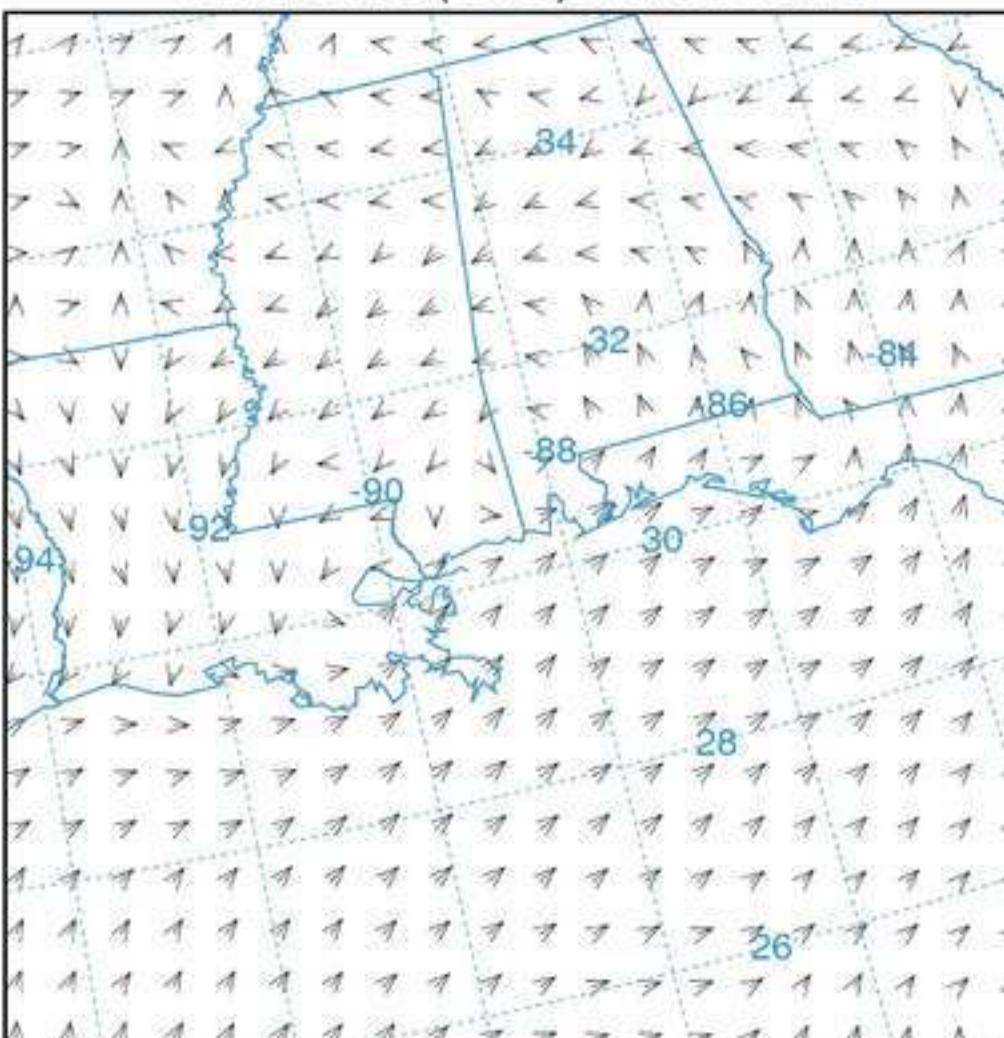


VECT (11) AT HEIGHT: 0.963

**Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/18

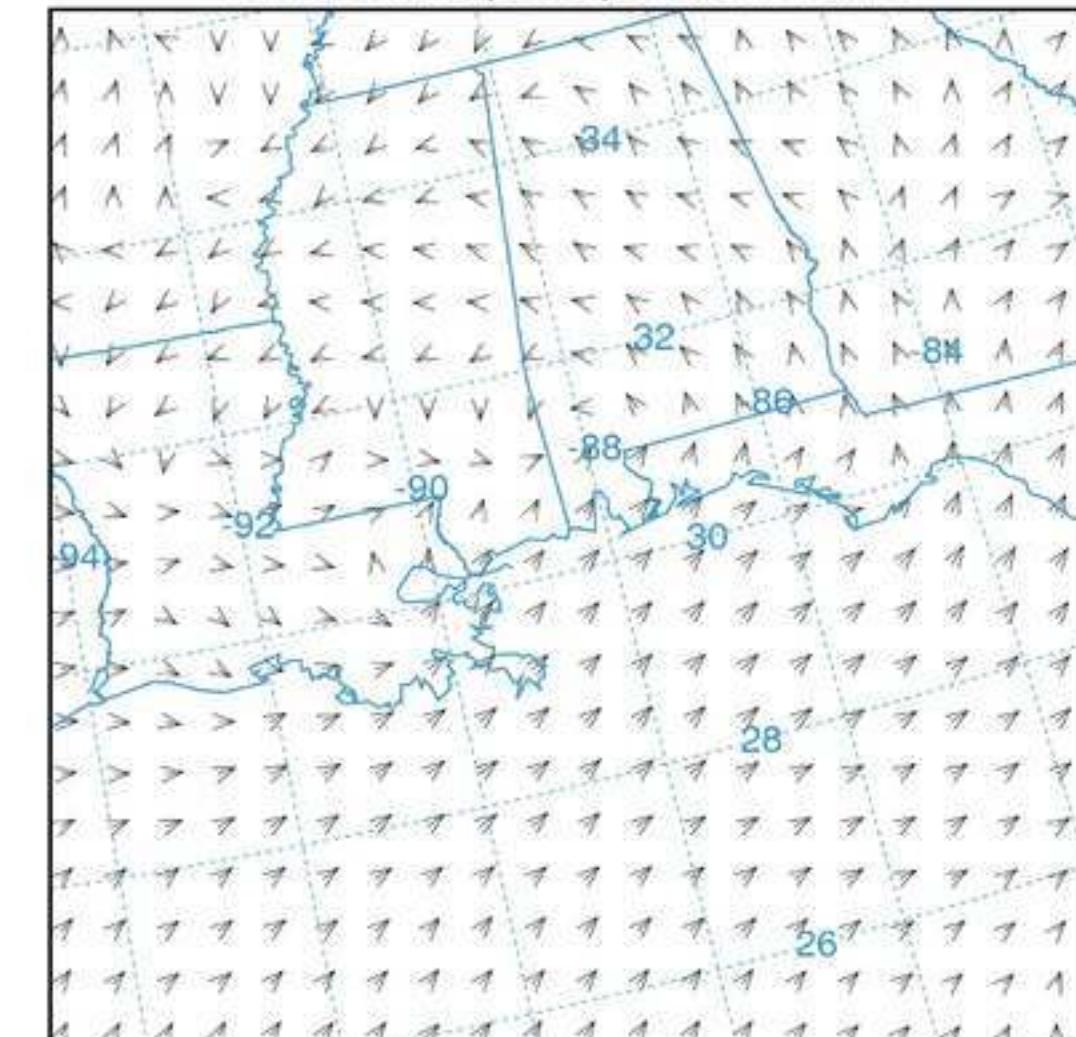


VECT (10) AT HEIGHT: 0.826

**Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/18

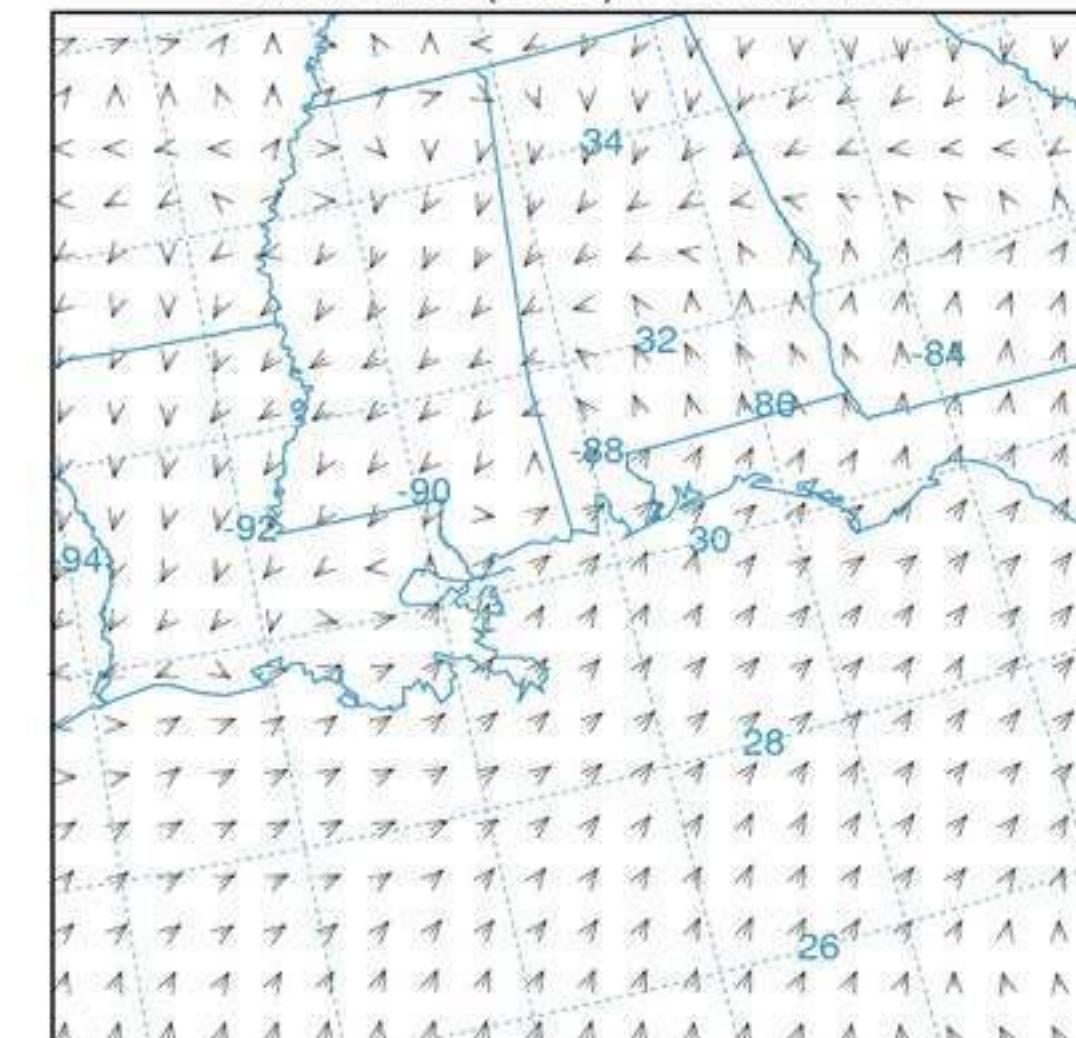


VECT (11) AT HEIGHT: 0.940

**Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/18

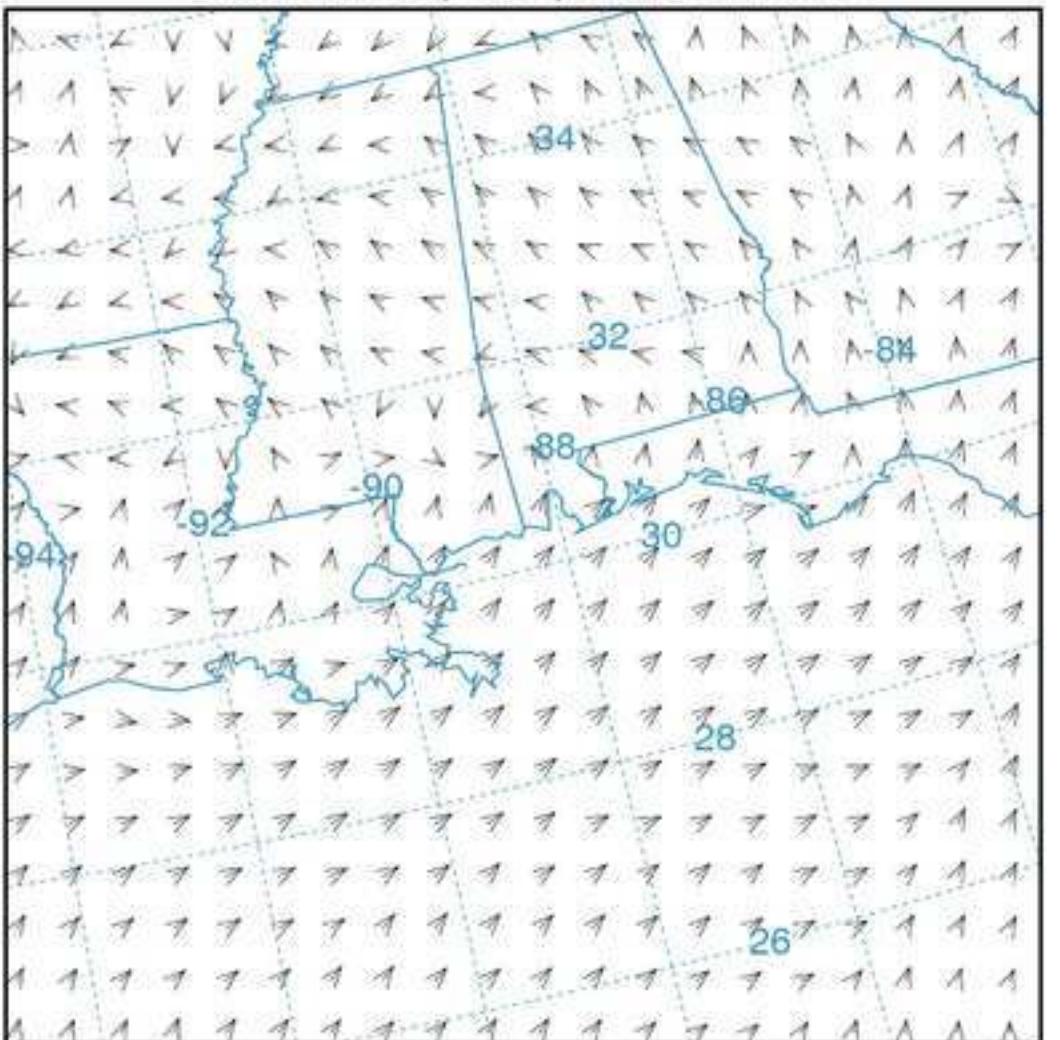


VECT (10) AT HEIGHT: 0.718

**Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/19

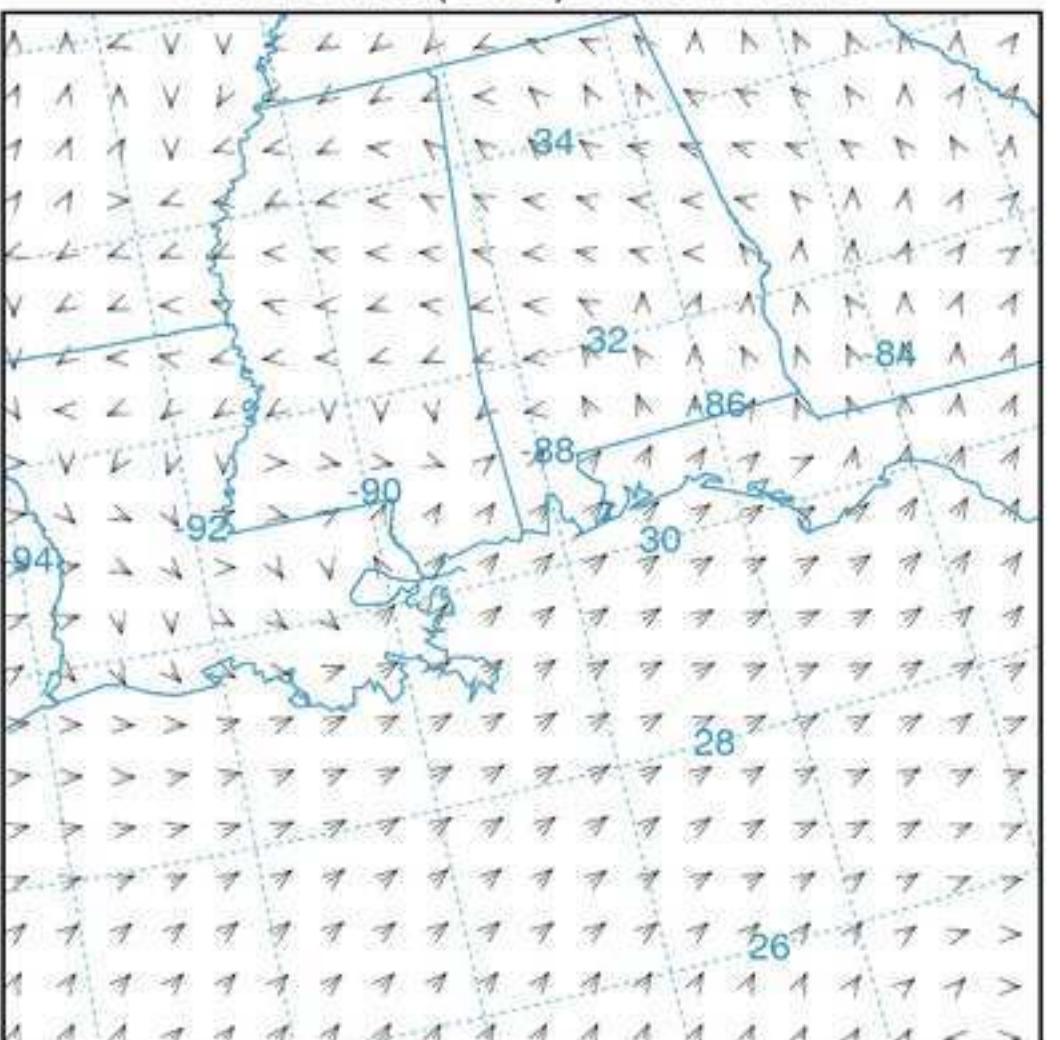


VECT (8) AT HEIGHT: 1.000

**Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/19

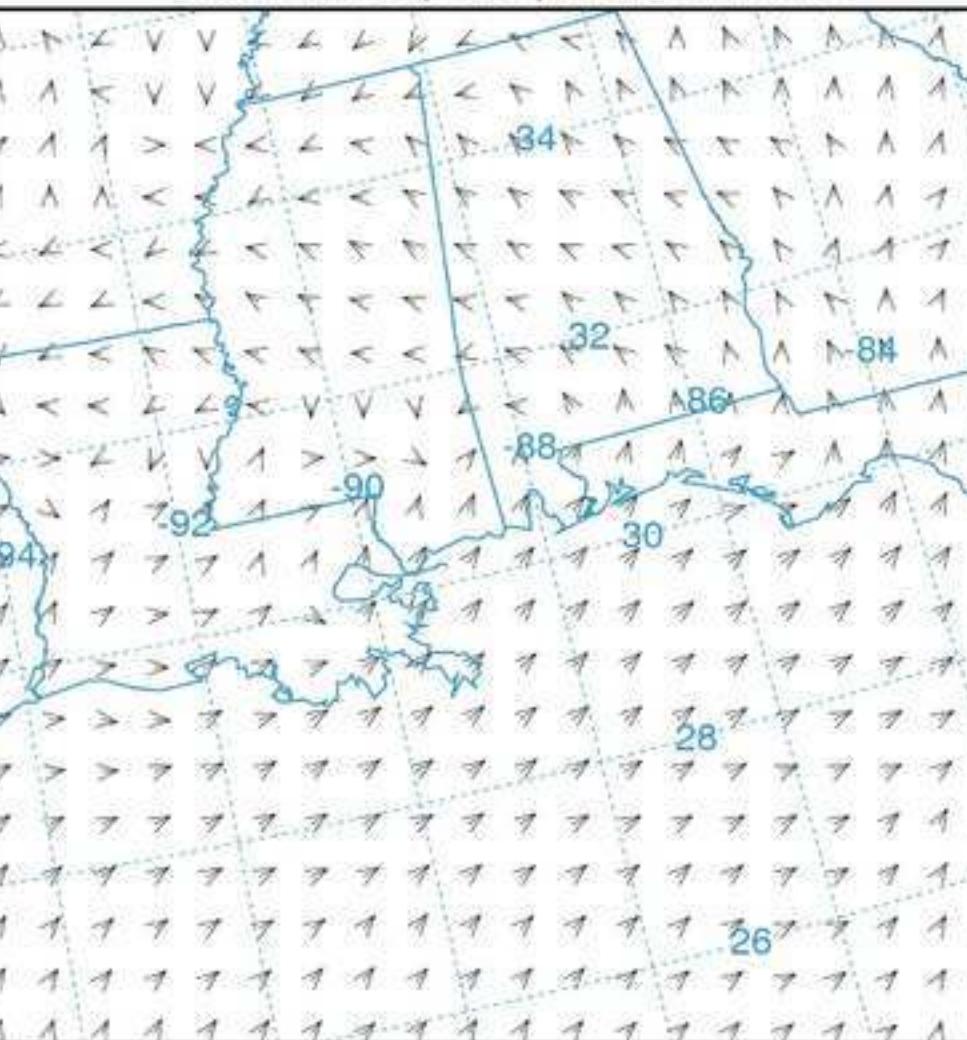


VECT (12) AT HEIGHT: 0.904

**Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/19

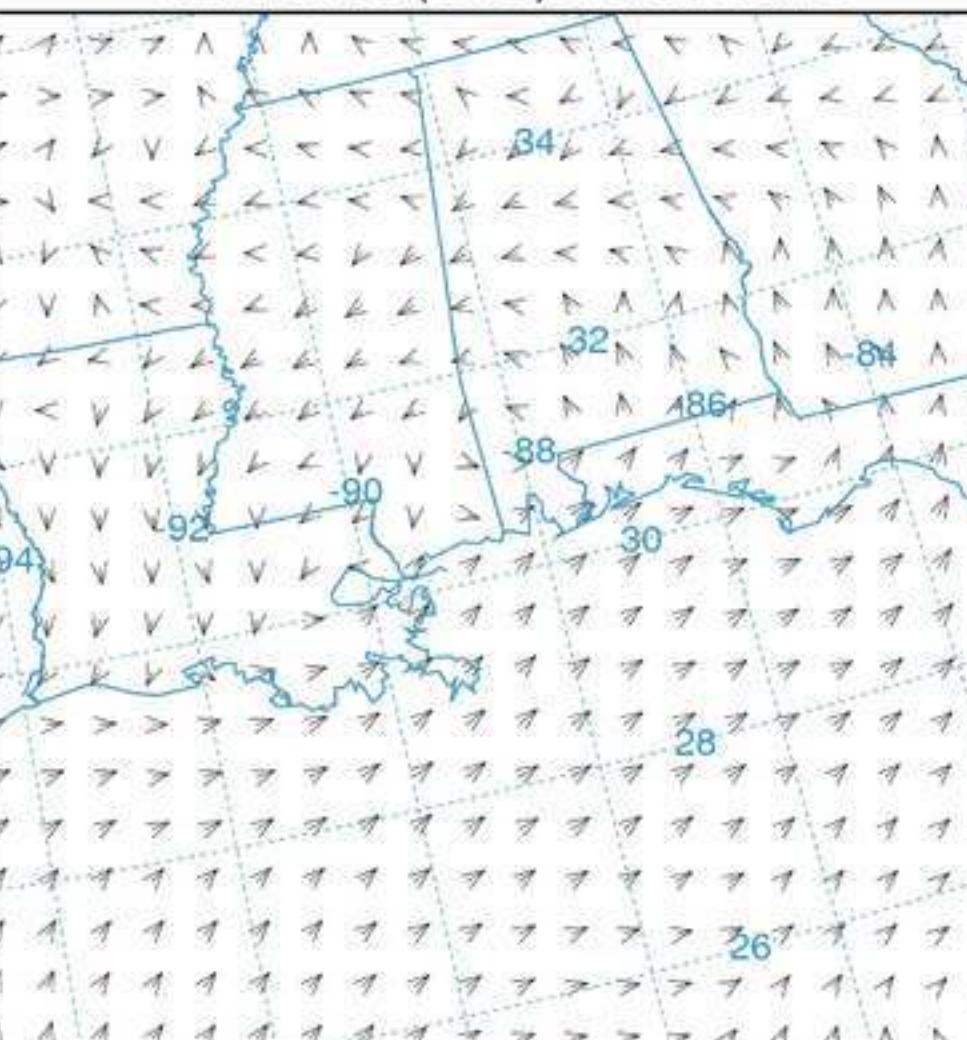


VECT (10) AT HEIGHT: 0.963

**Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/19

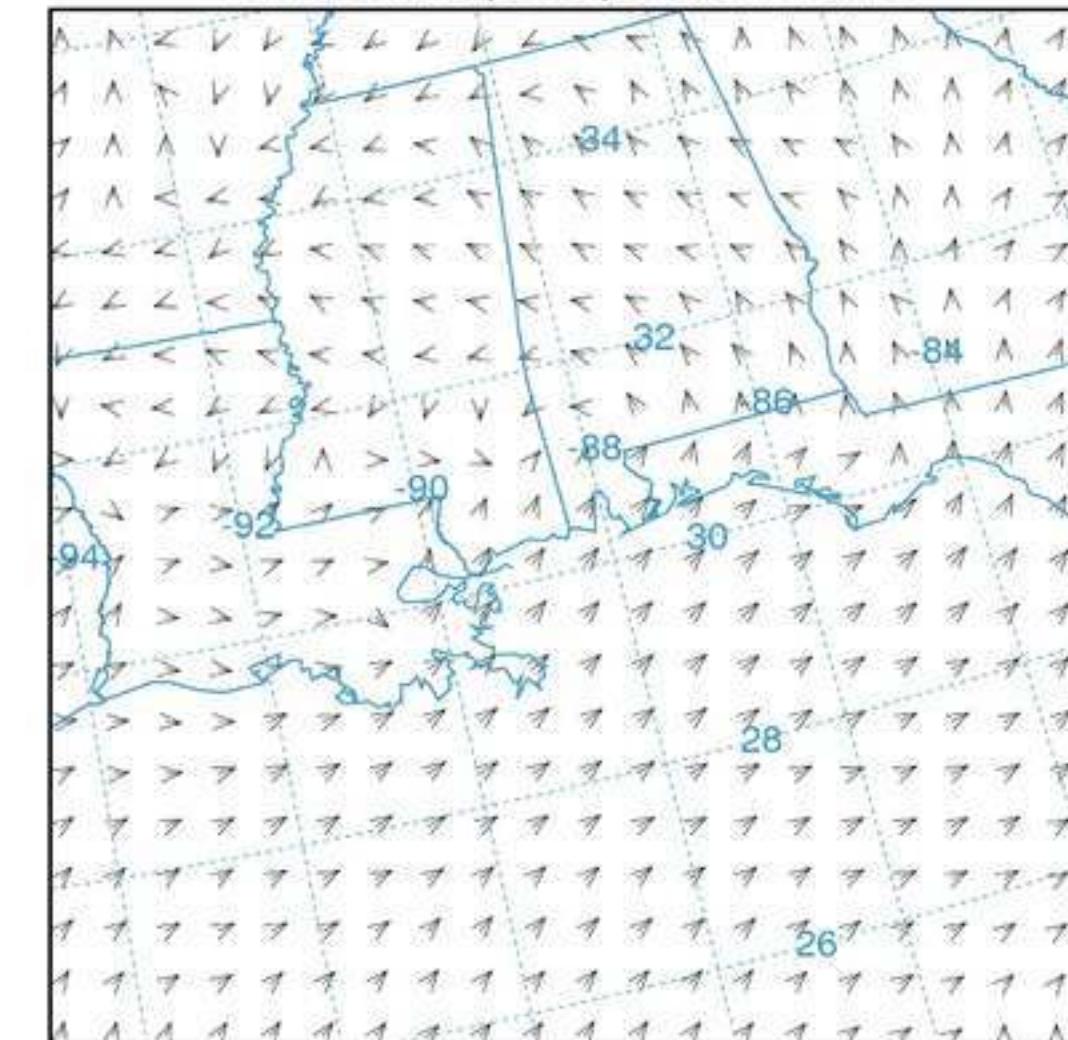


VECT (10) AT HEIGHT: 0.826

**Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/19

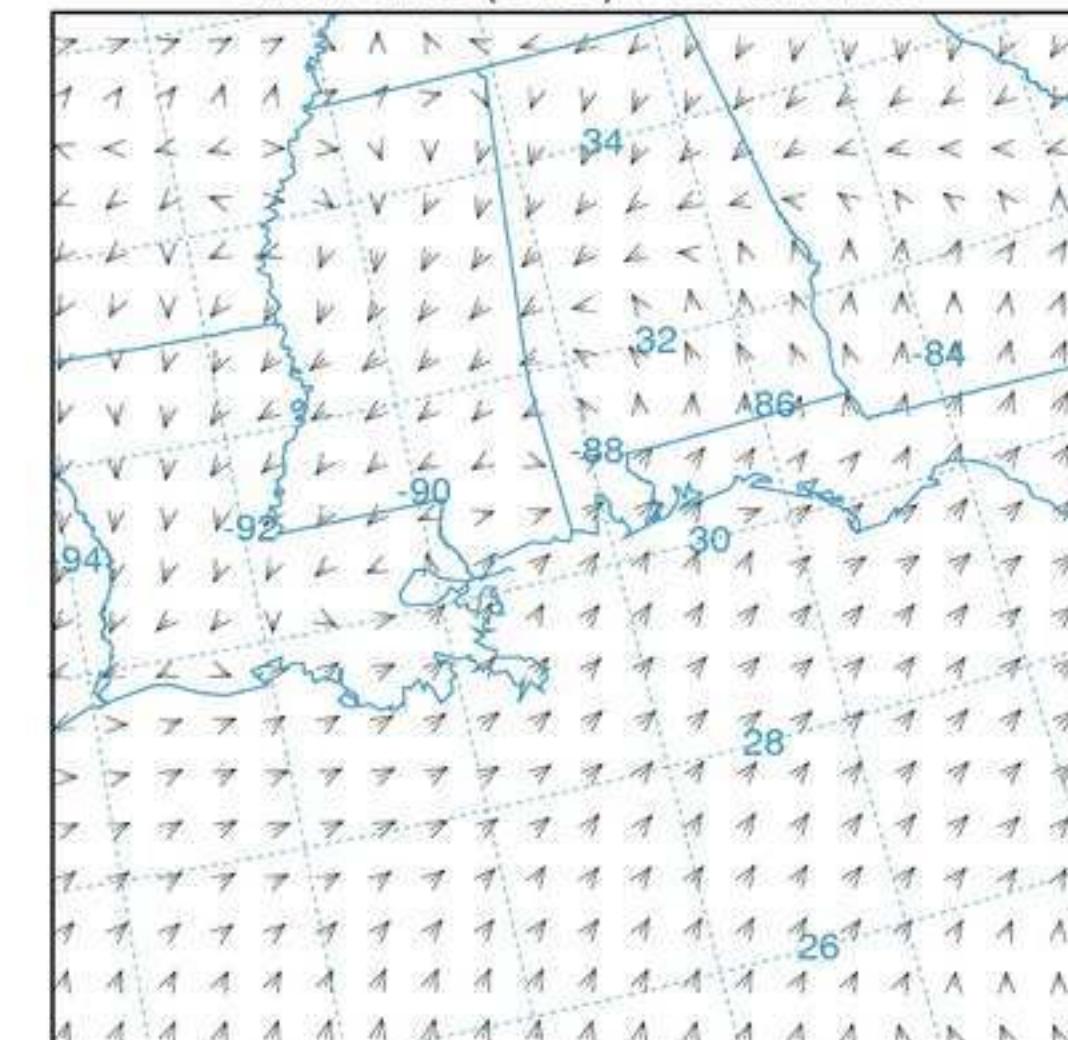


VECT (10) AT HEIGHT: 0.940

**Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/19

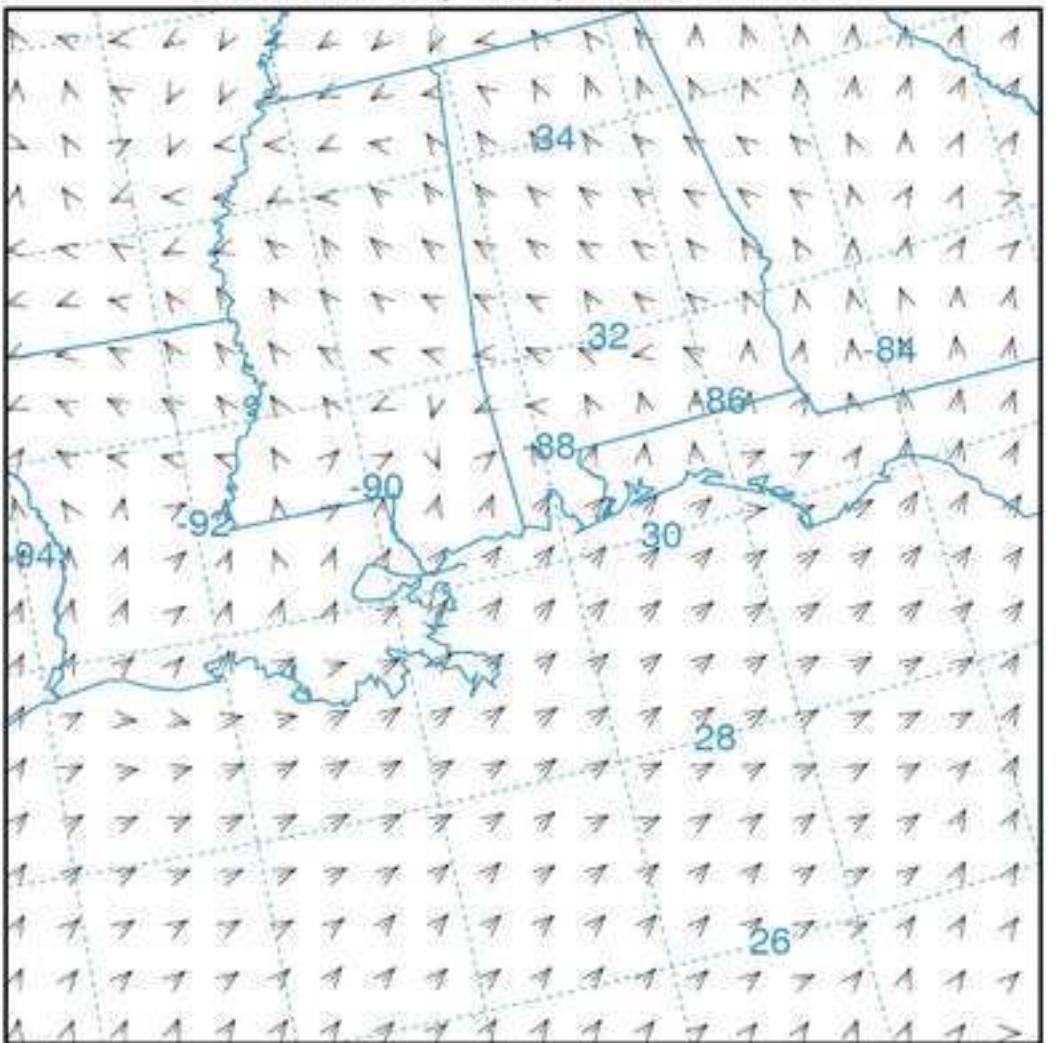


VECT (9) AT HEIGHT: 0.718

**Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/20

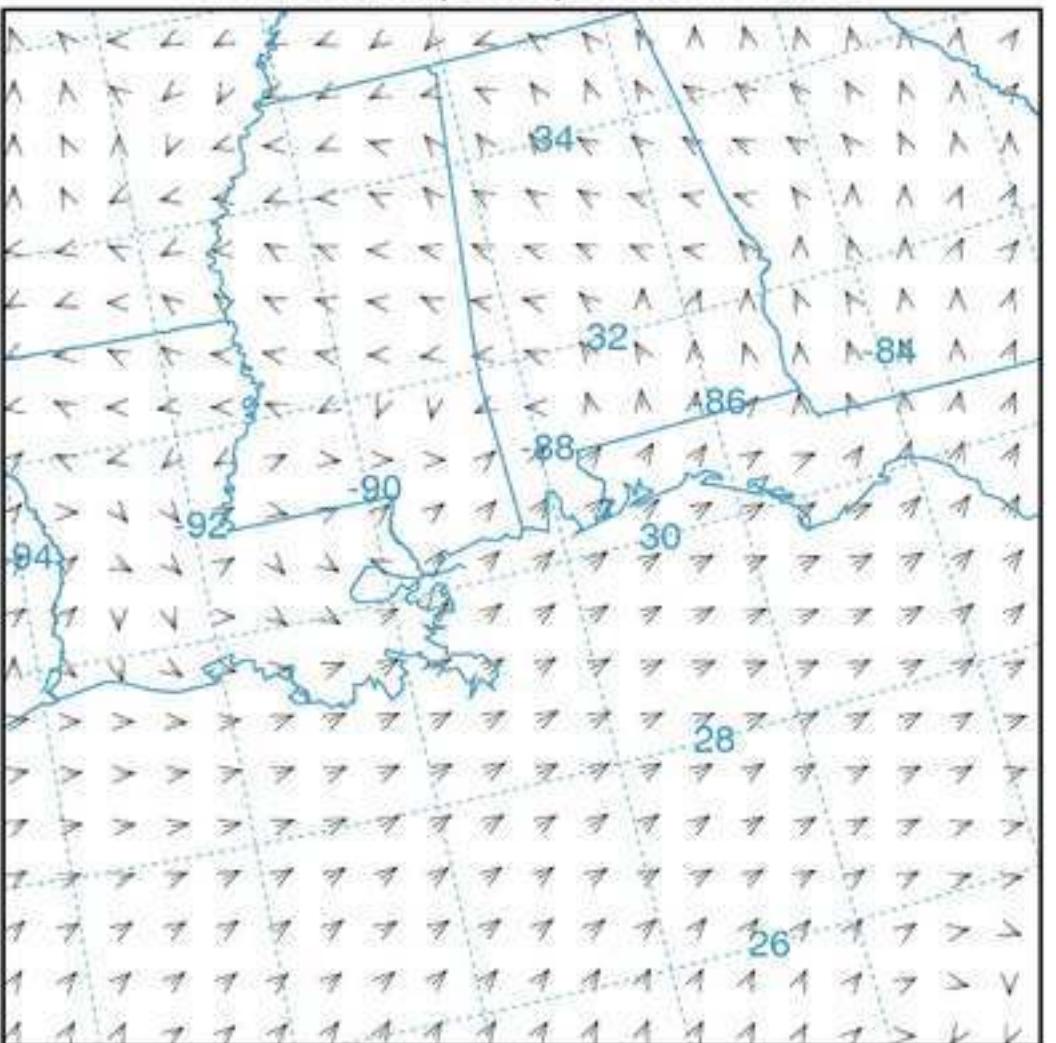


VECT (8) AT HEIGHT: 1.000

Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/20

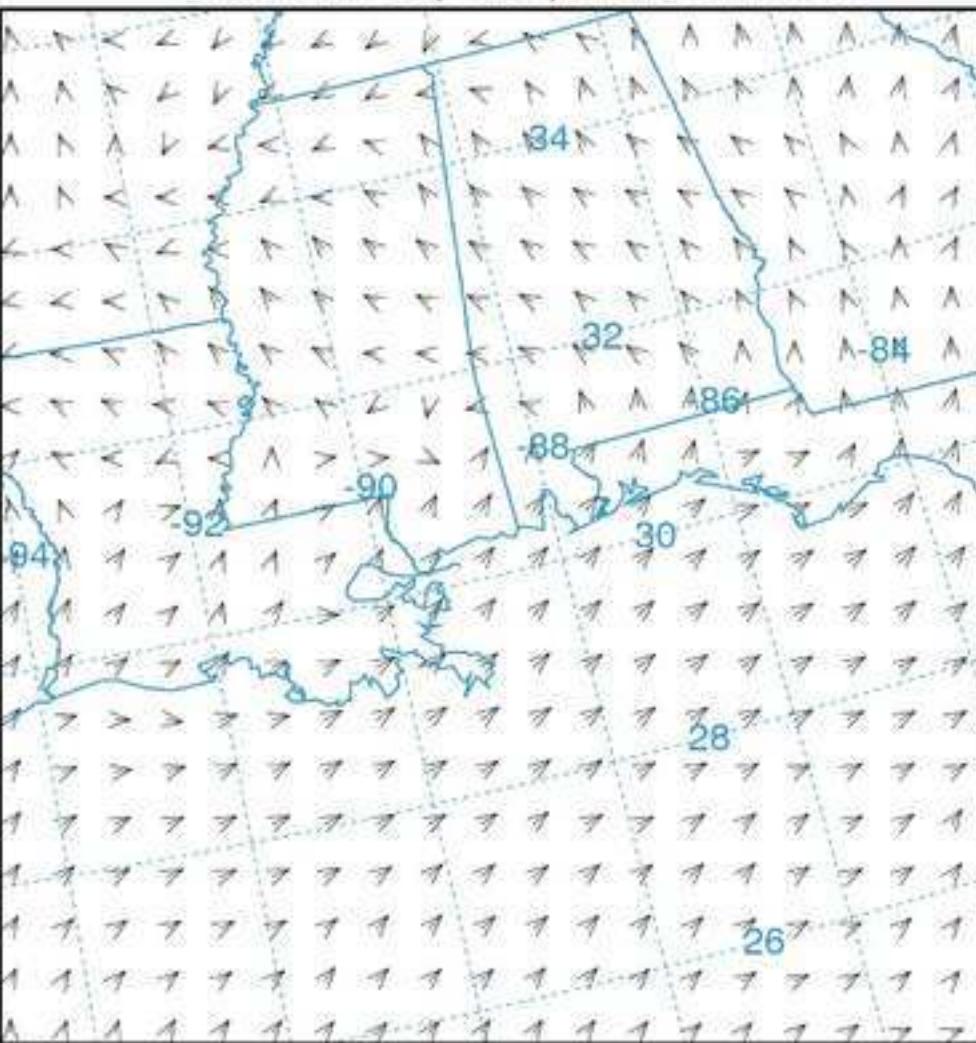


VECT (12) AT HEIGHT: 0.904

Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/20

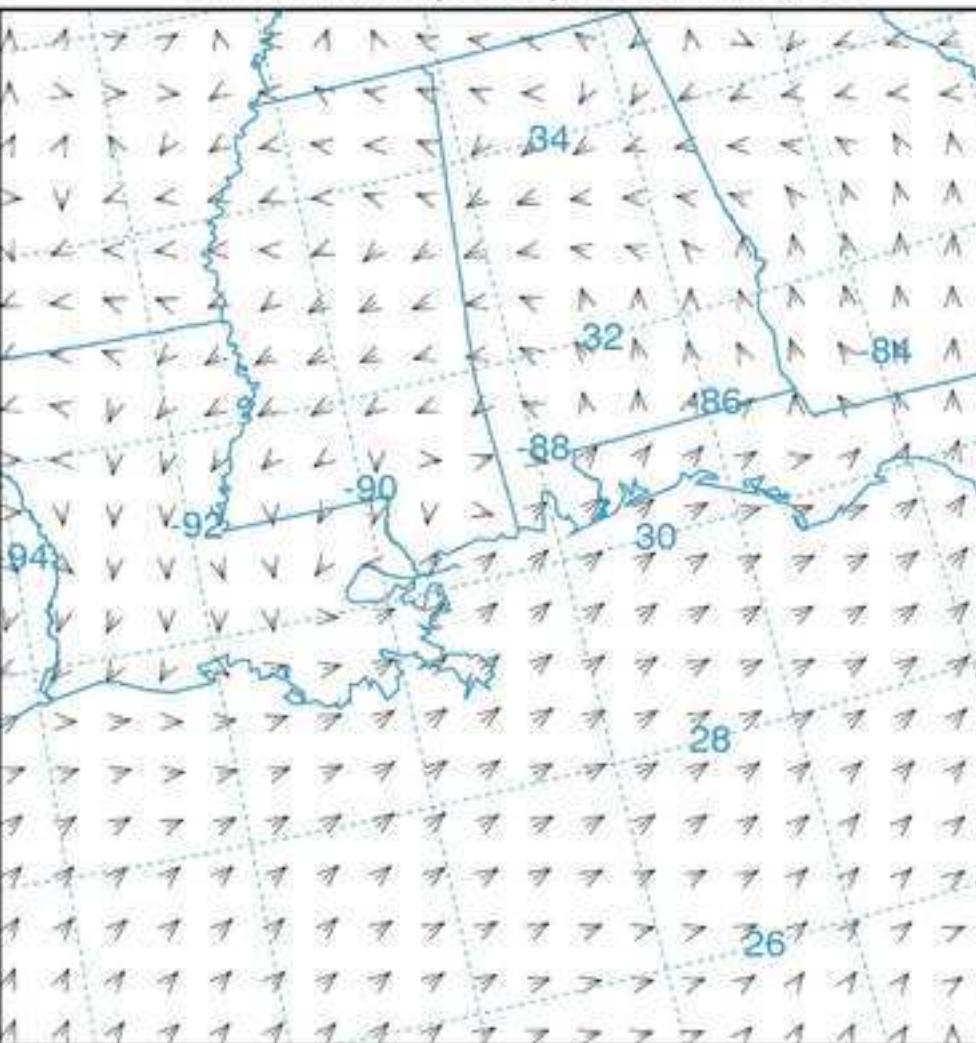


VECT (10) AT HEIGHT: 0.963

Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/20

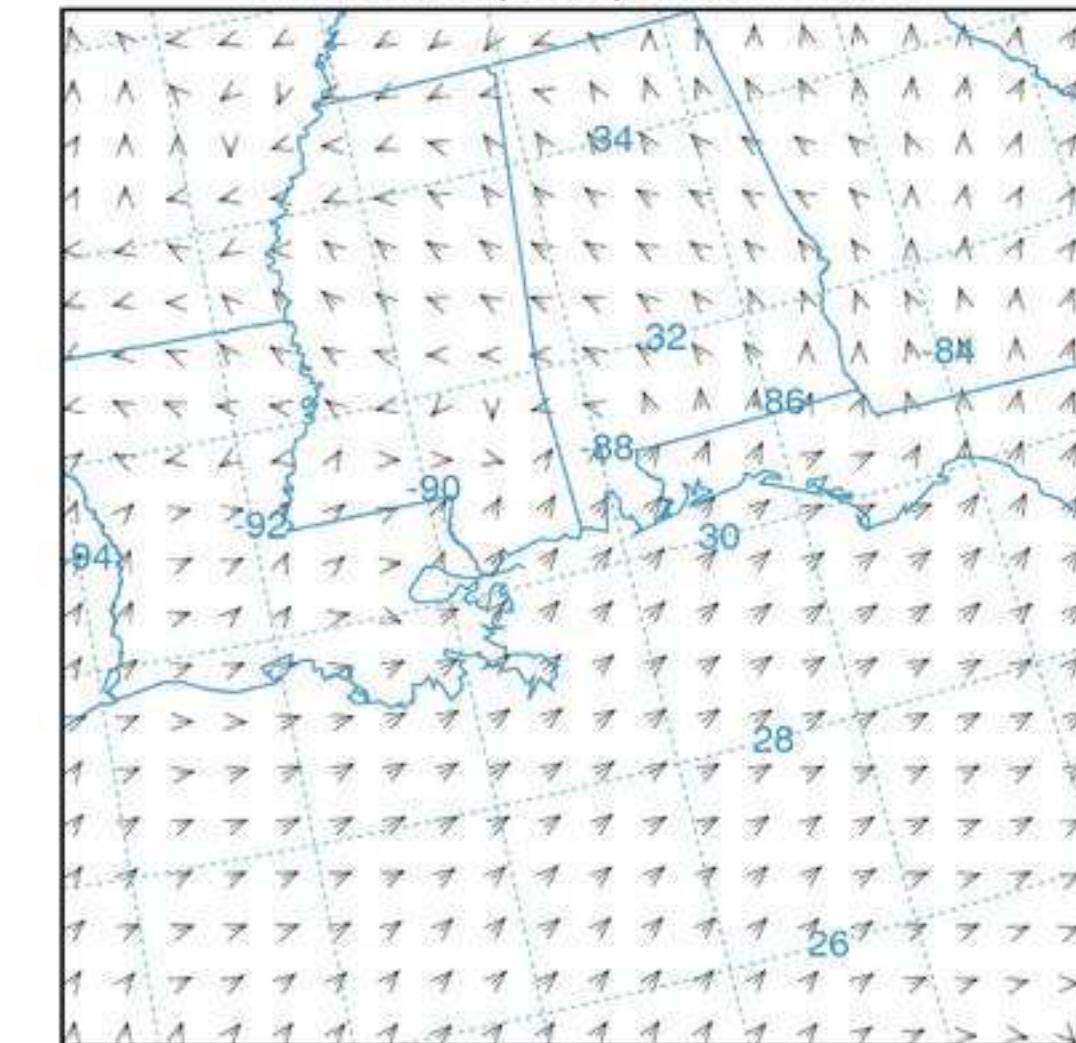


VECT (11) AT HEIGHT: 0.826

Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/20

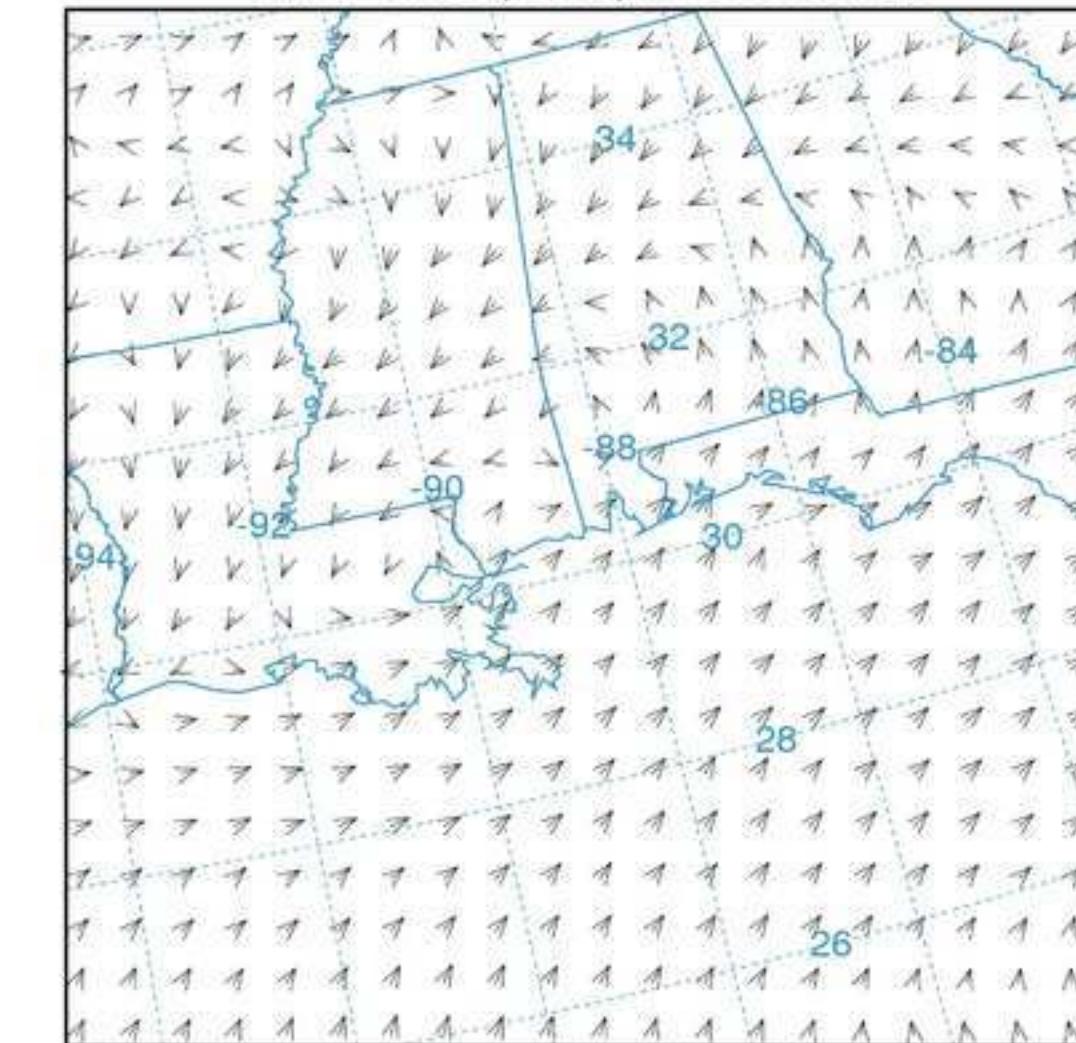


VECT (10) AT HEIGHT: 0.940

Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/20

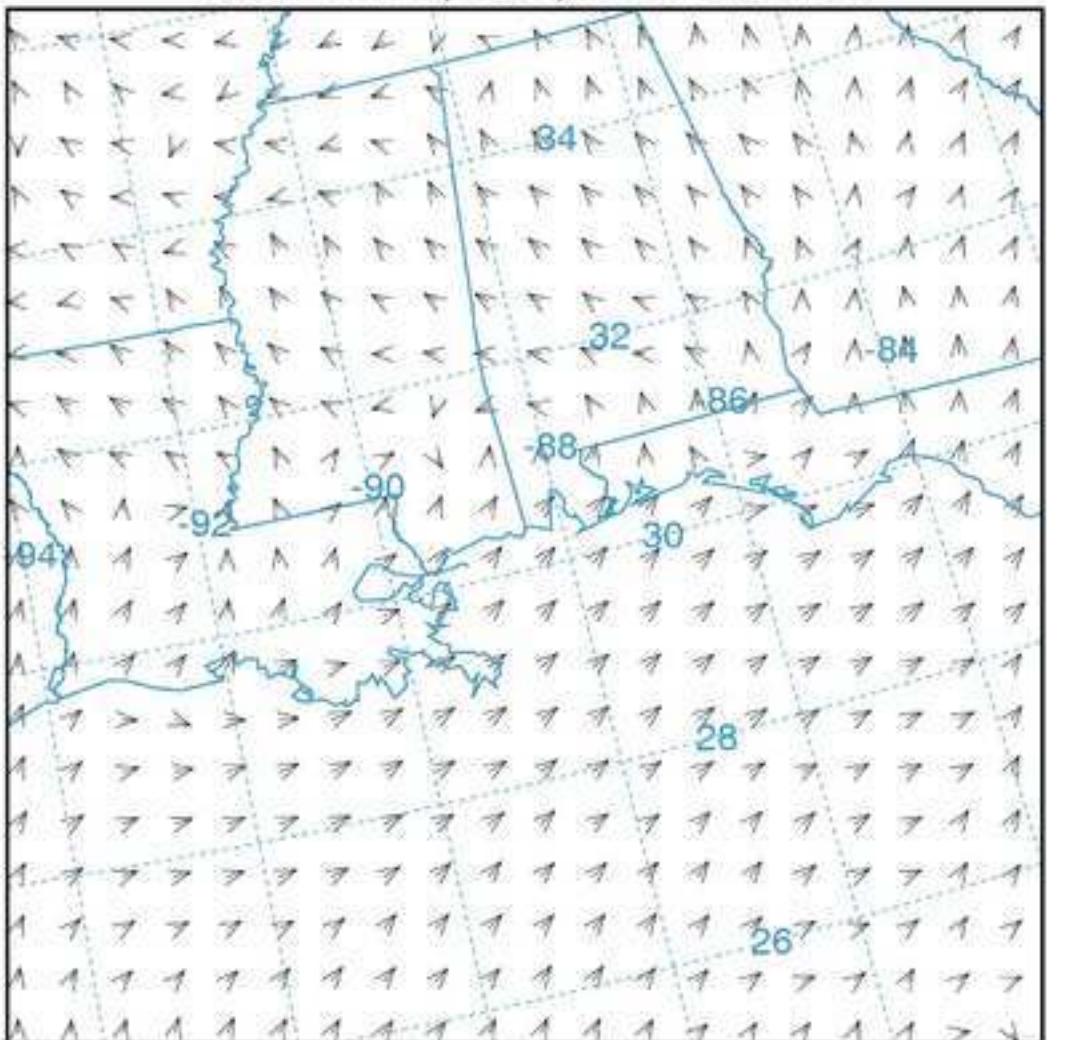


VECT (8) AT HEIGHT: 0.718

Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/21

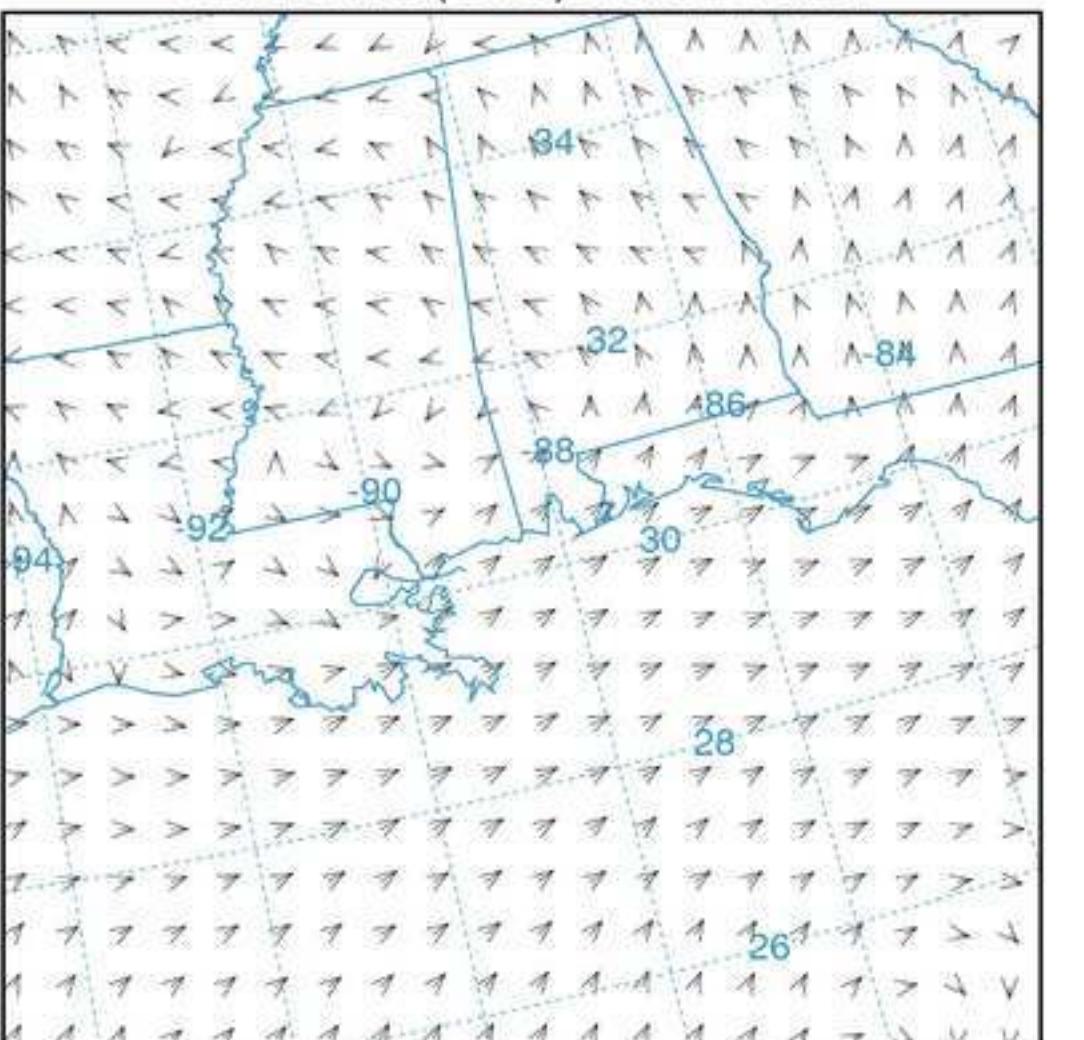


VECT (8) AT HEIGHT: 1.000

**Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/21

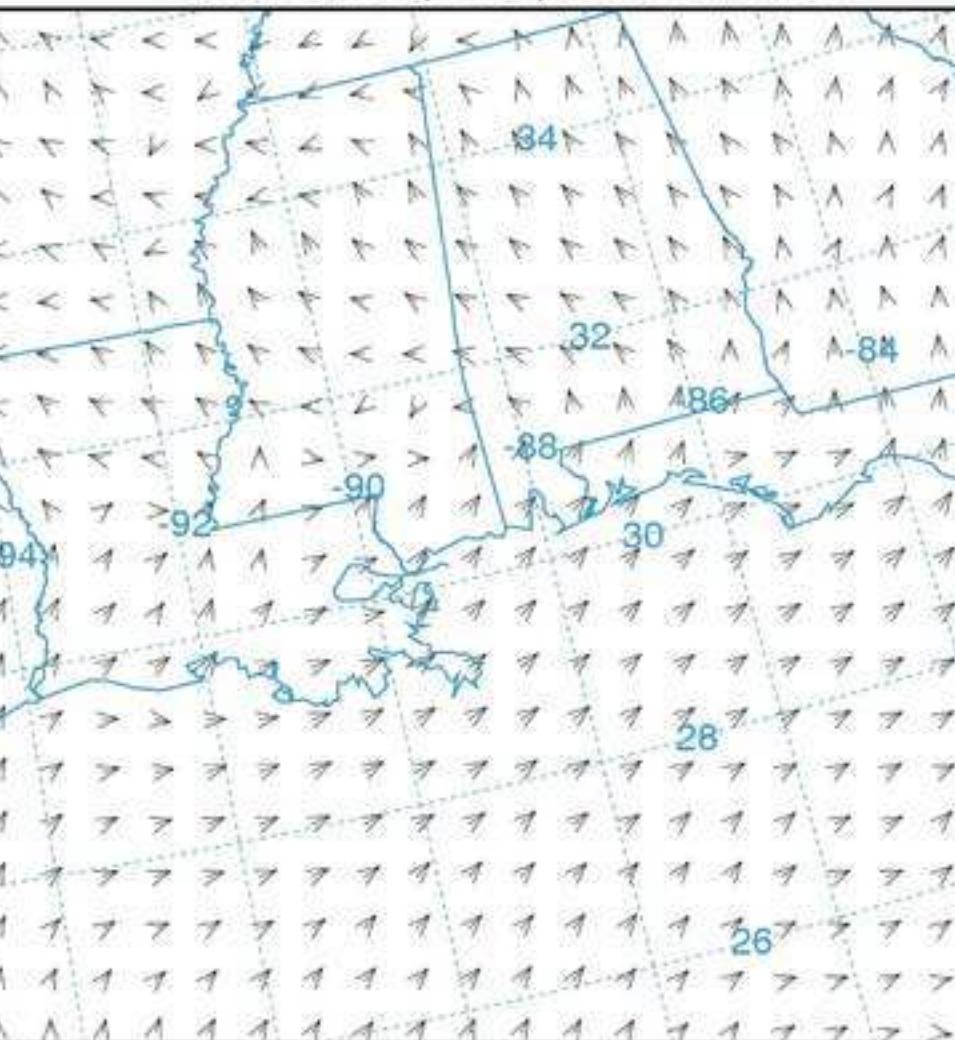


VECT (12) AT HEIGHT: 0.904

**Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/21

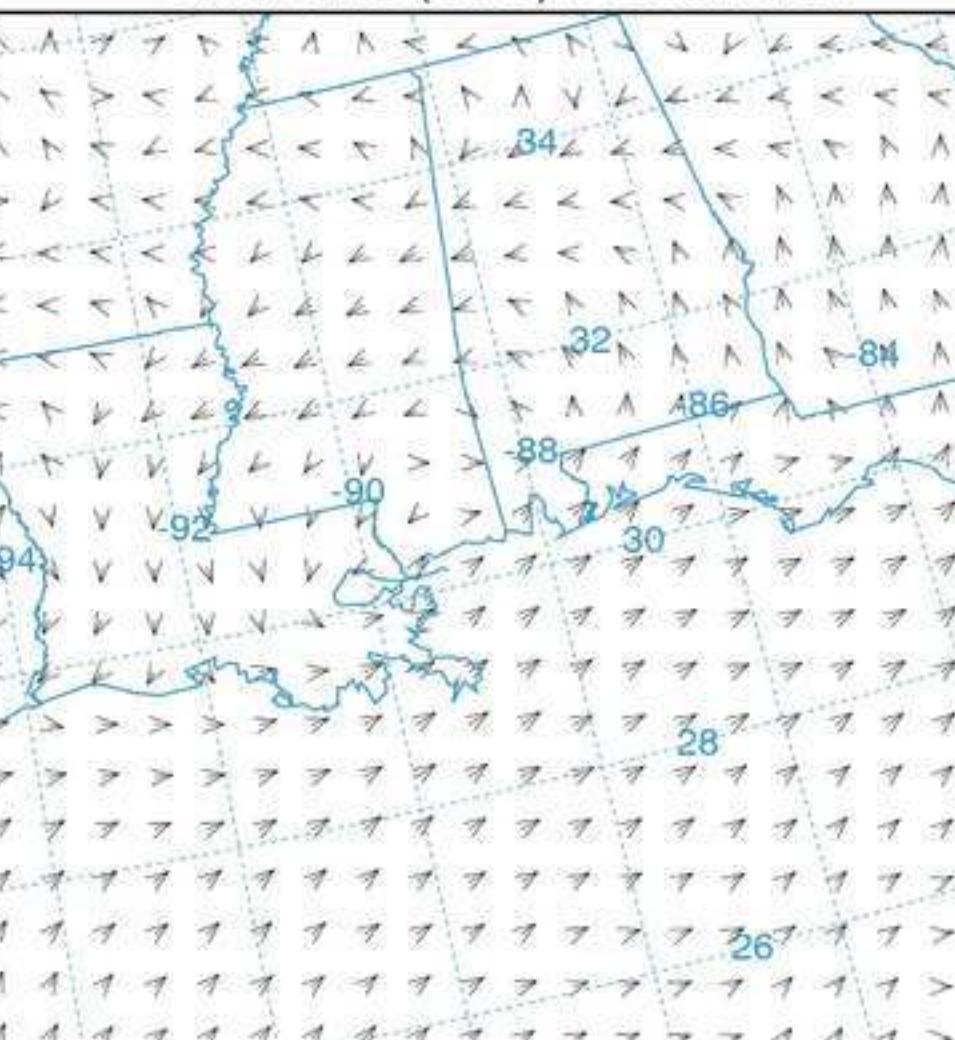


VECT (9) AT HEIGHT: 0.963

**Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/21

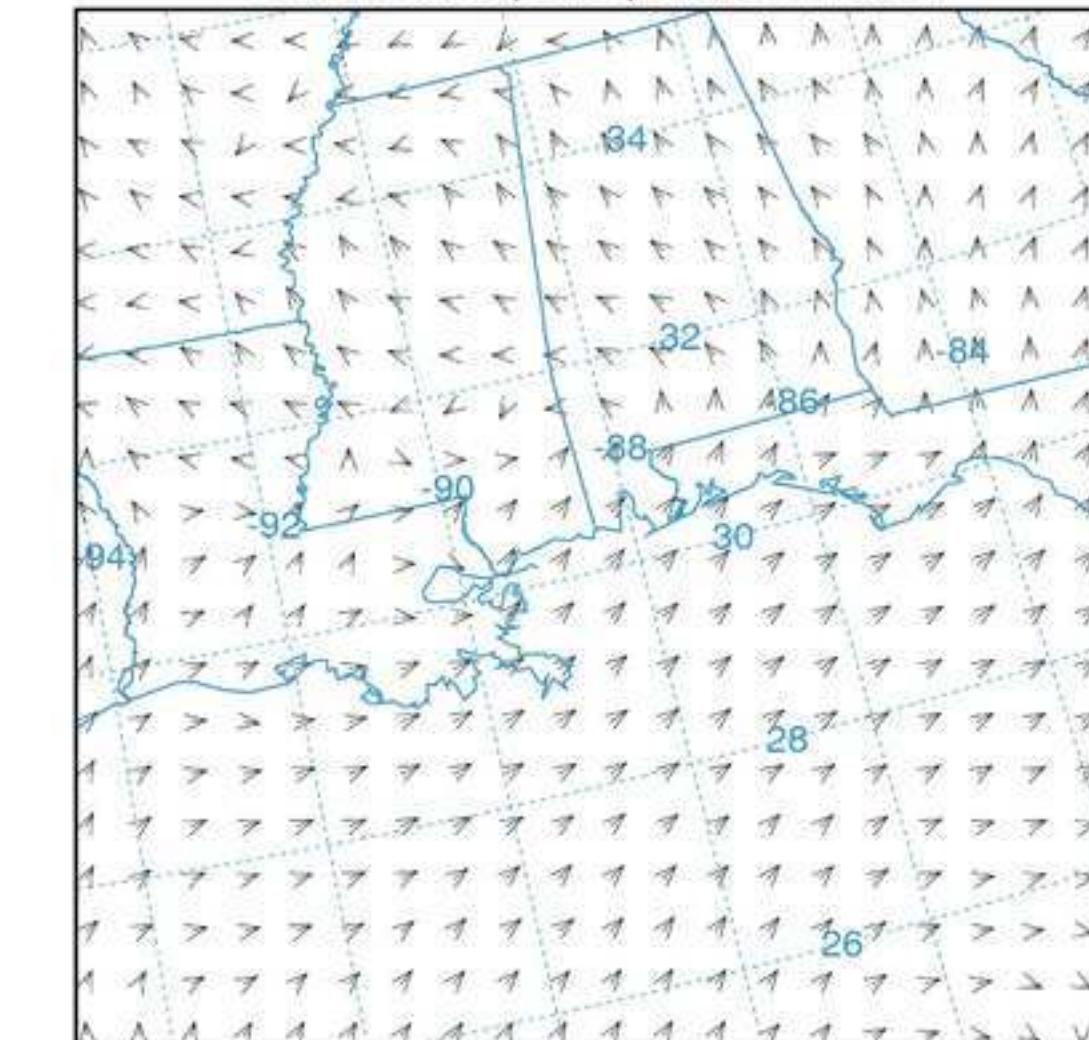


VECT (11) AT HEIGHT: 0.826

**Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/21

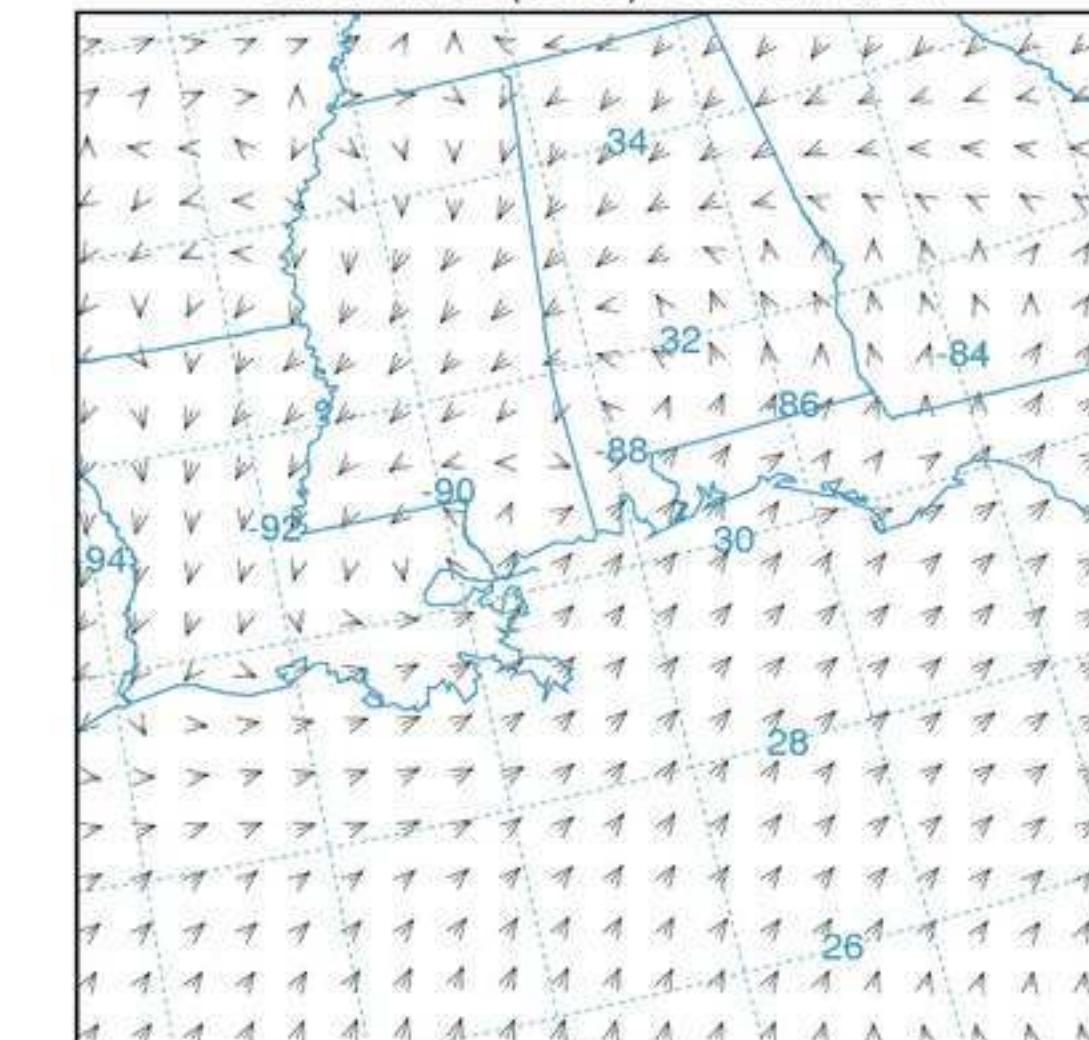


VECT (10) AT HEIGHT: 0.940

**Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/21

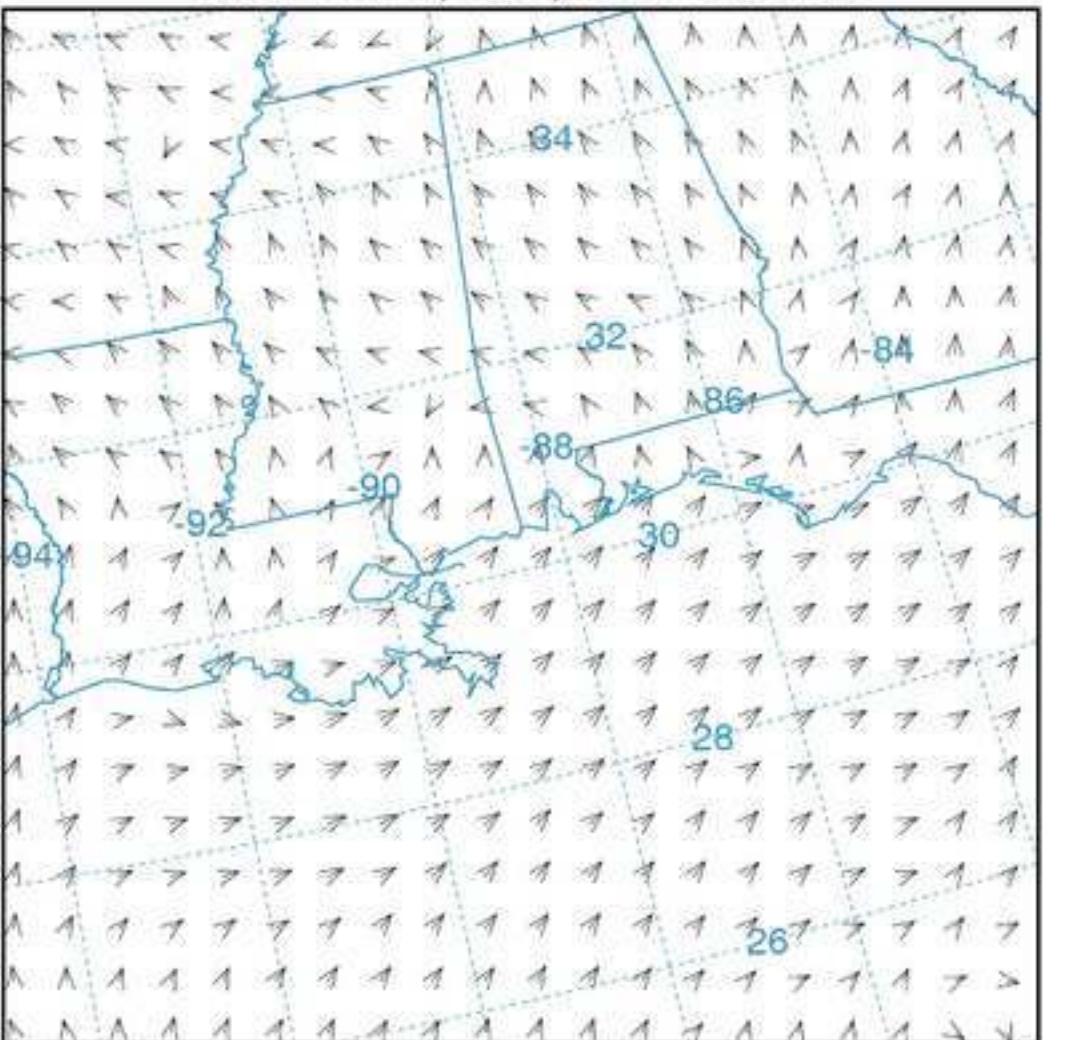


VECT (8) AT HEIGHT: 0.718

**Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/22

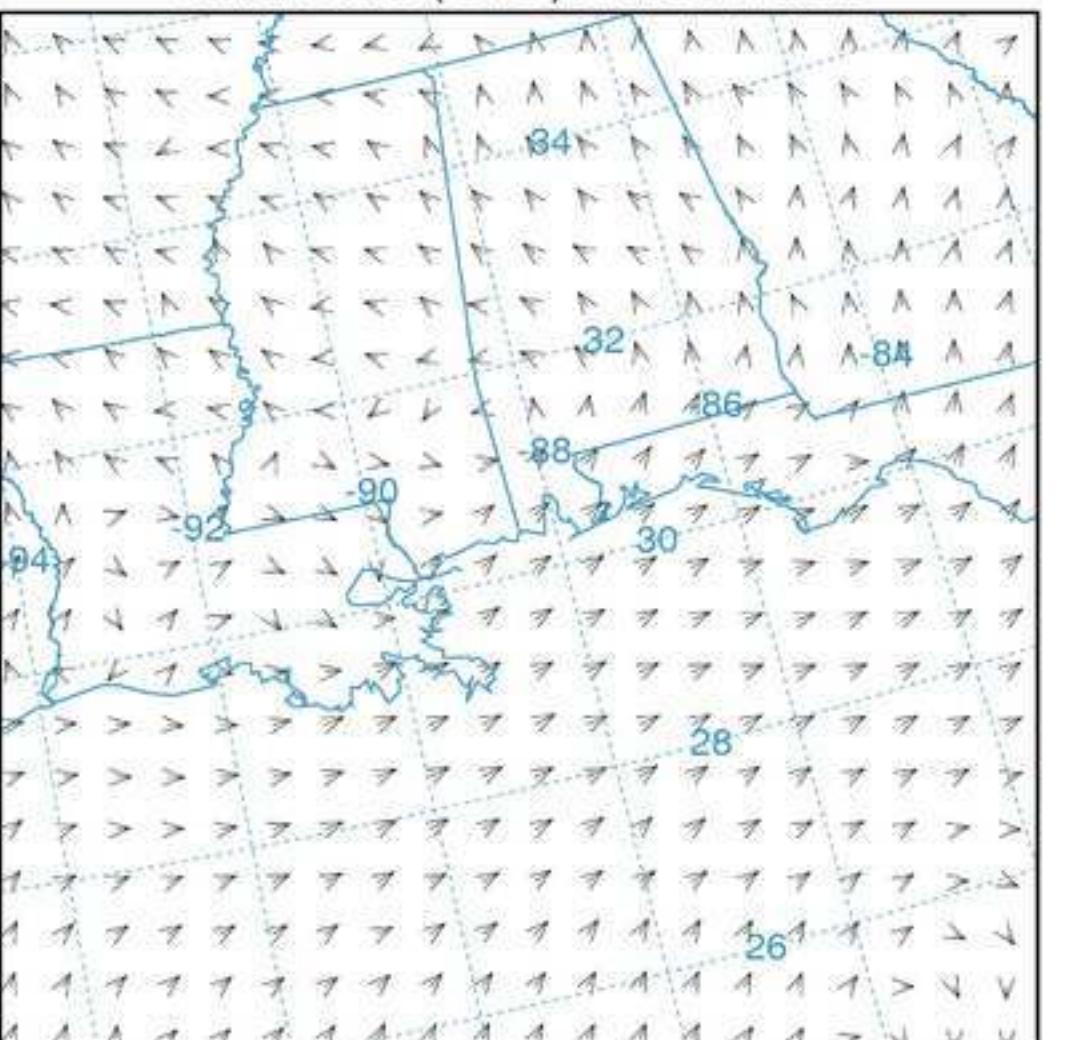


VECT (8) AT HEIGHT: 1.000

**Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/22

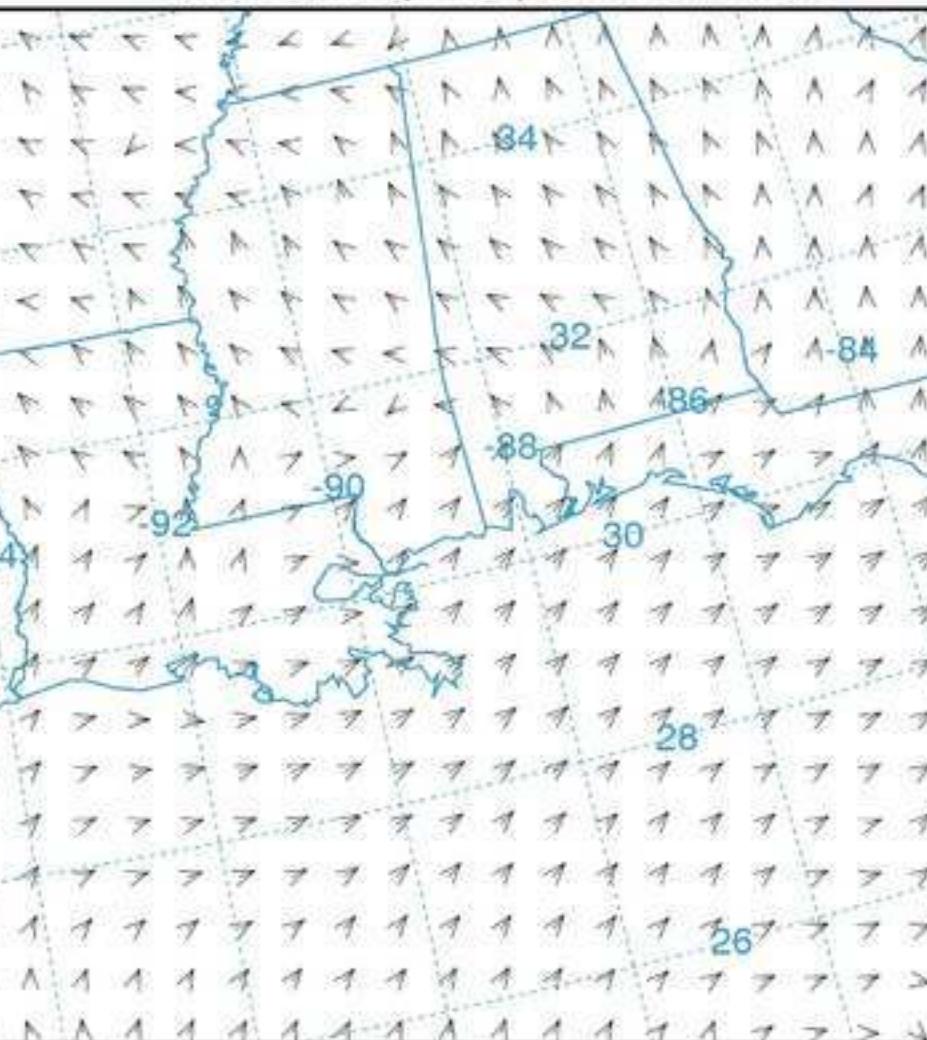


VECT (11) AT HEIGHT: 0.904

**Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/22

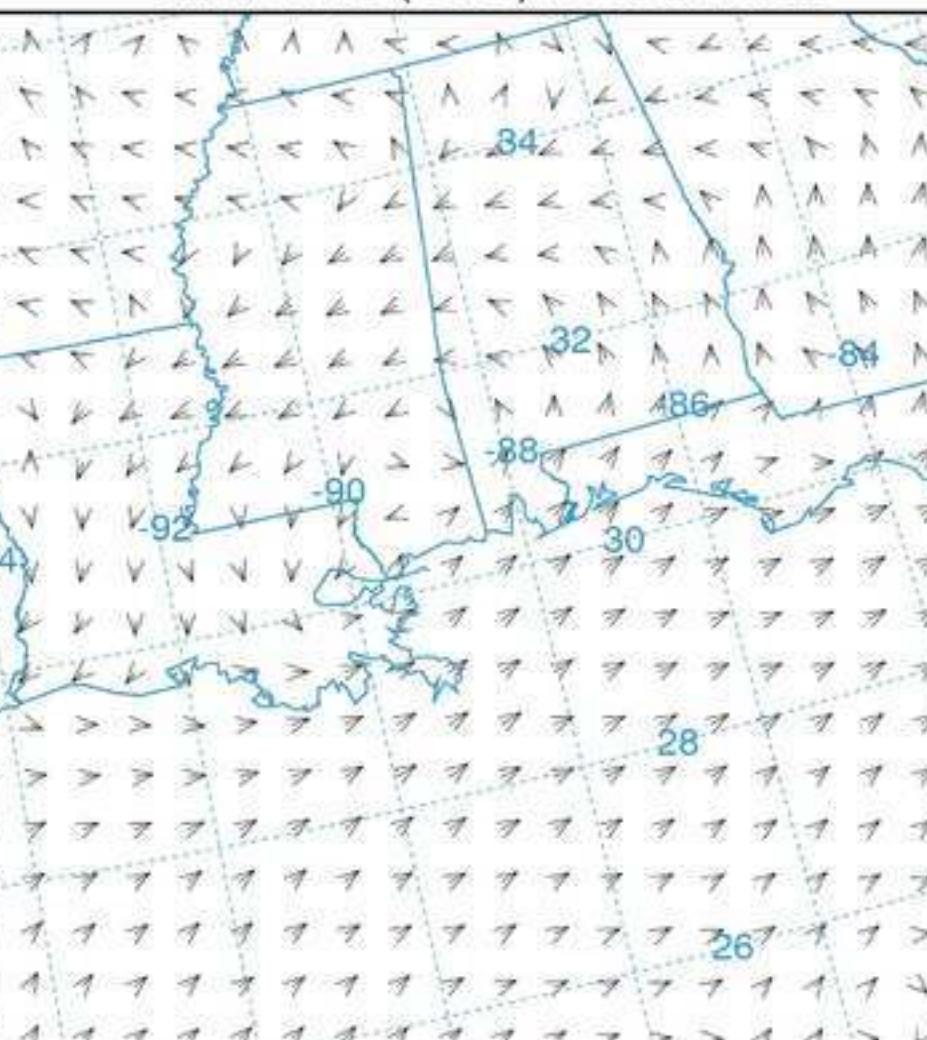


VECT (11) AT HEIGHT: 0.963

**Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/22

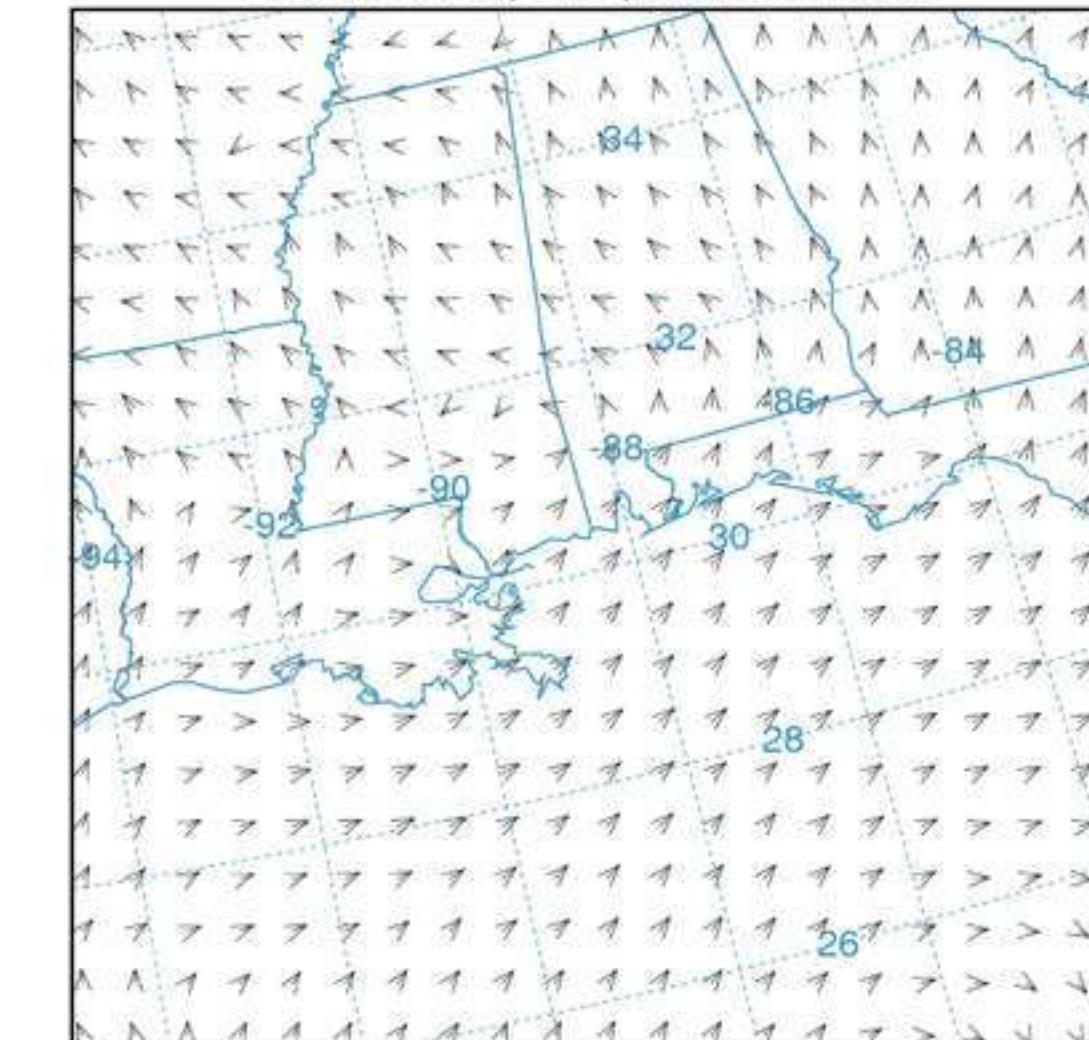


VECT (11) AT HEIGHT: 0.826

**Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/22

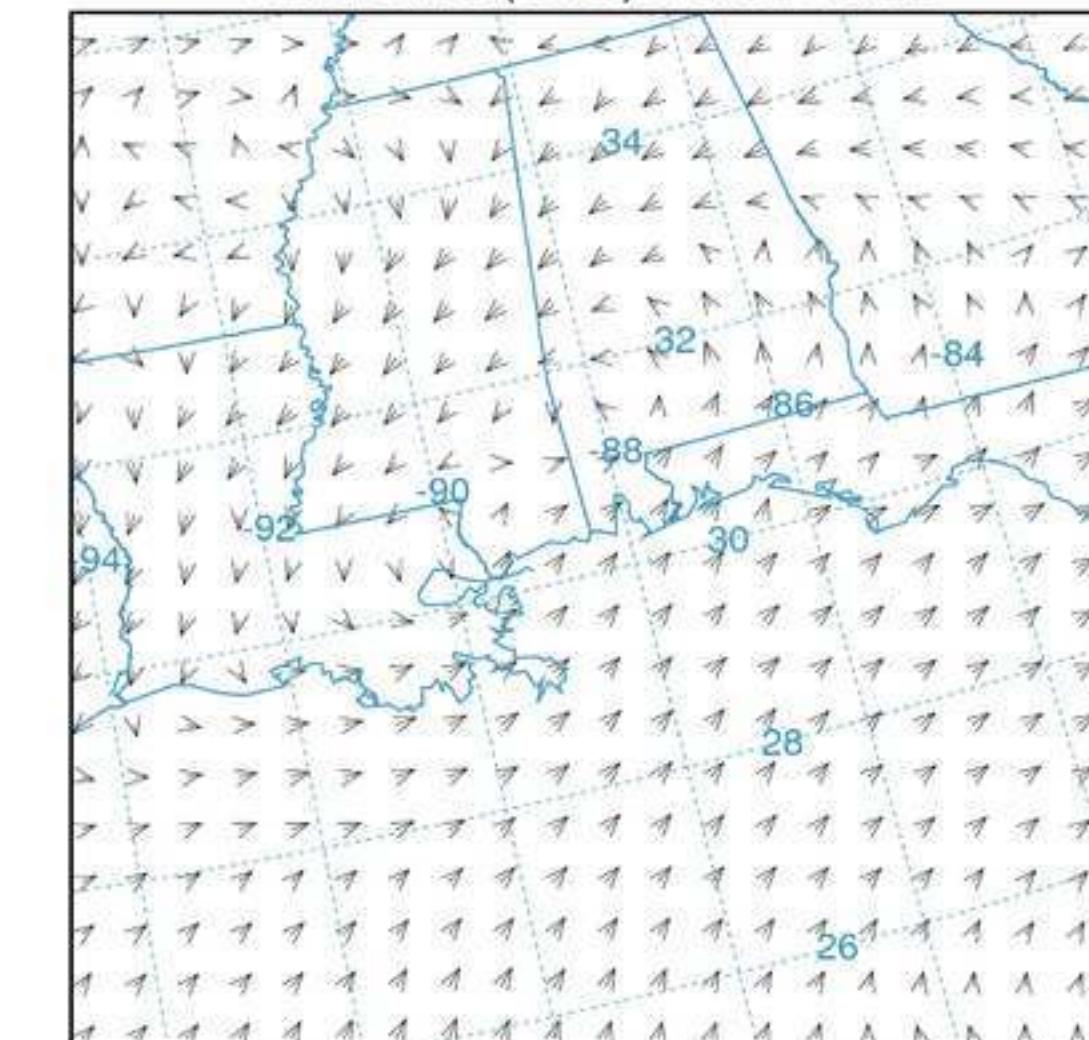


VECT (10) AT HEIGHT: 0.940

**Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/22

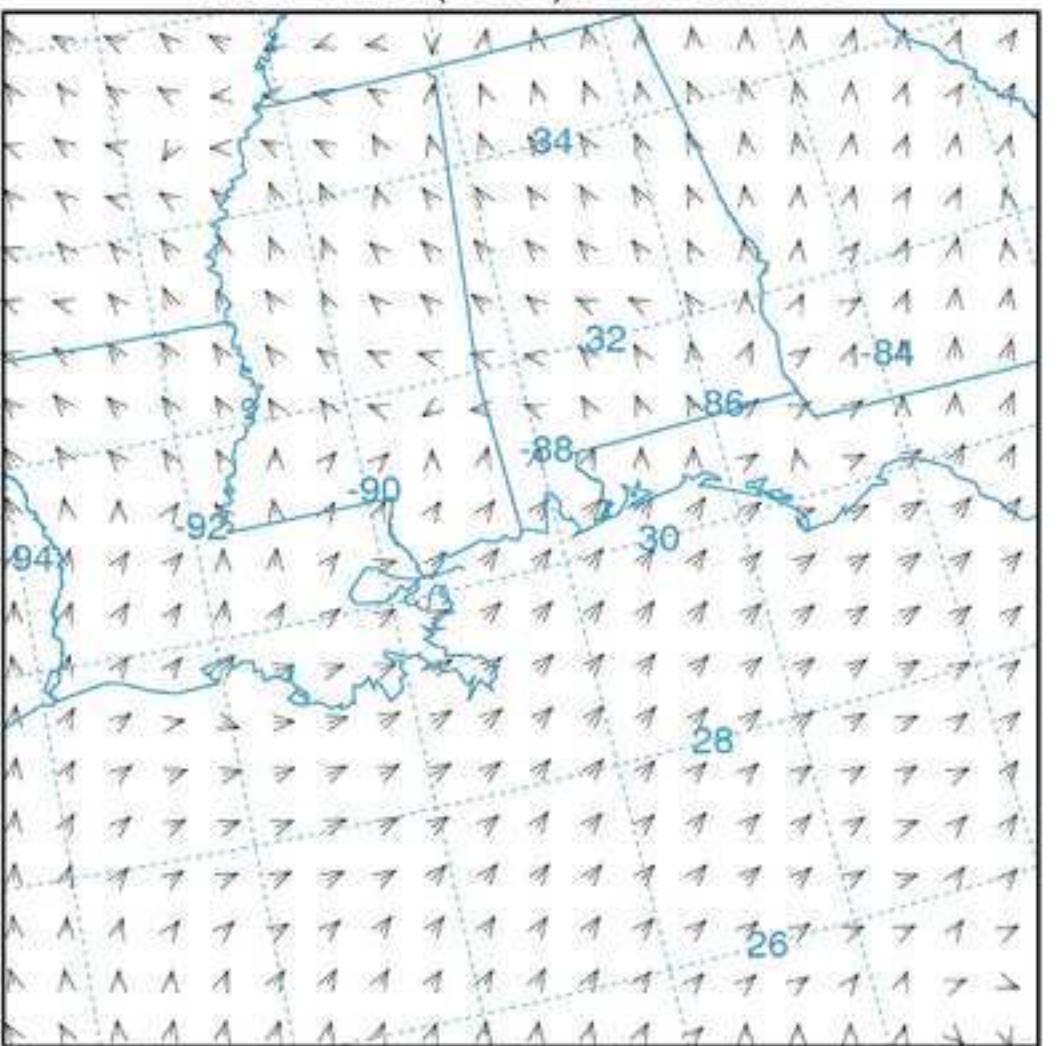


VECT (9) AT HEIGHT: 0.718

**Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/23

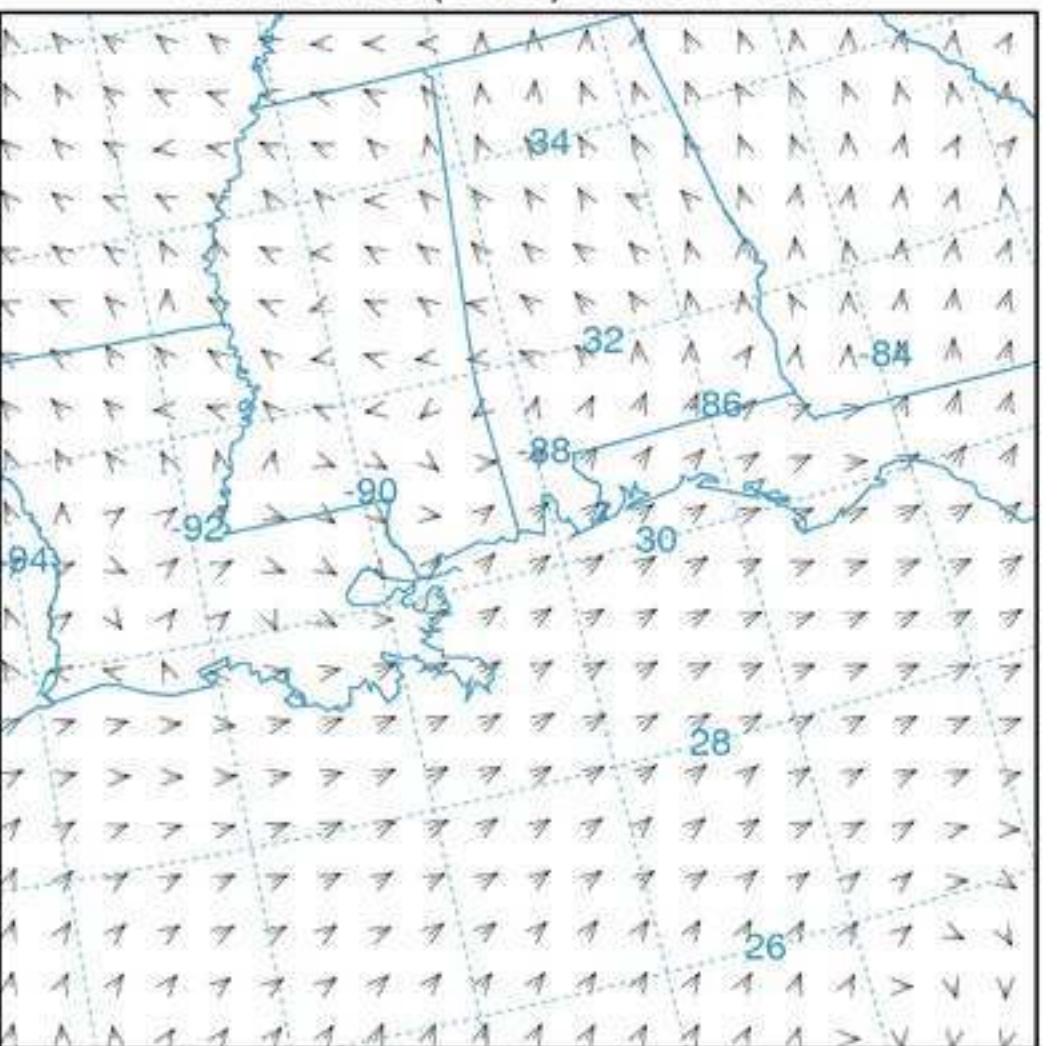


VECT (7) AT HEIGHT: 1.000

**Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/23

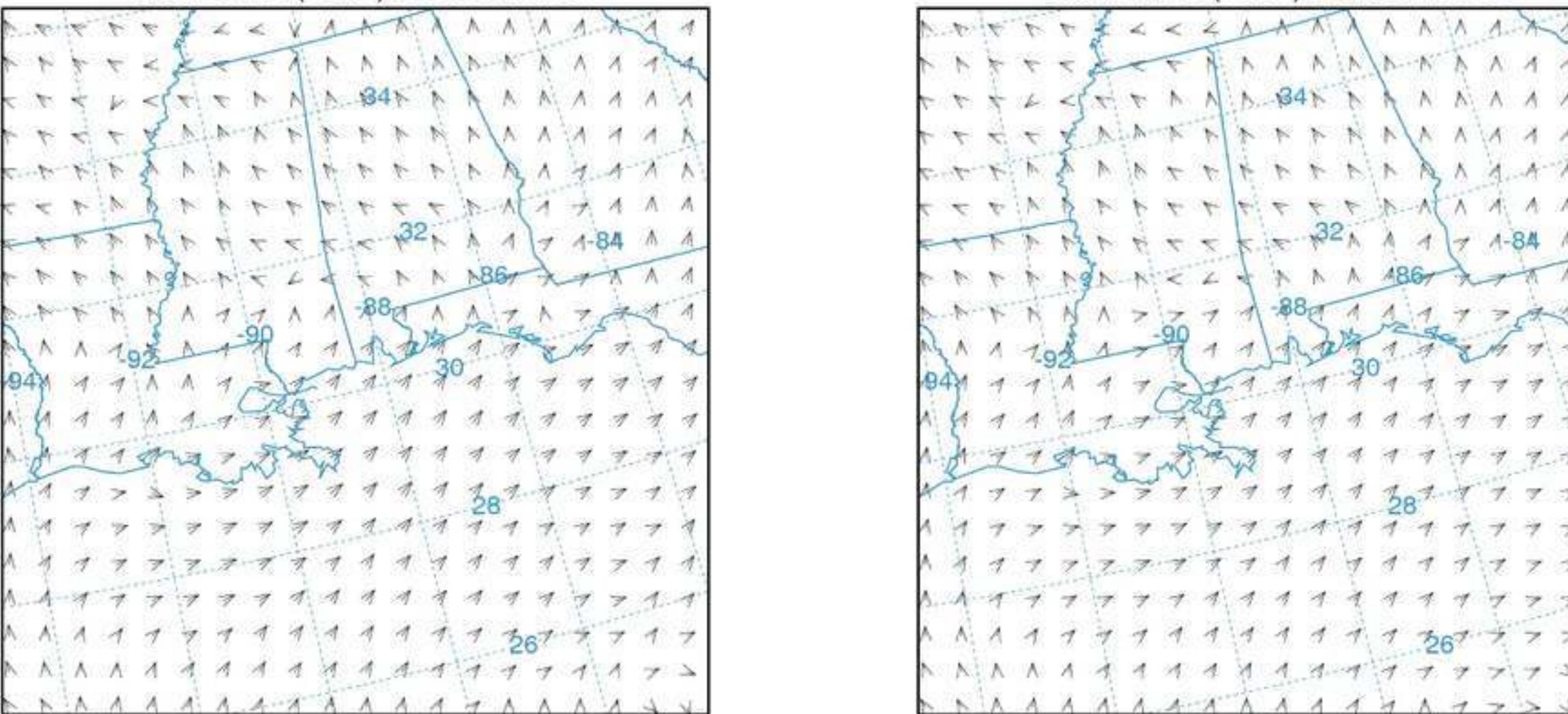


VECT (11) AT HEIGHT: 0.904

**Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/23

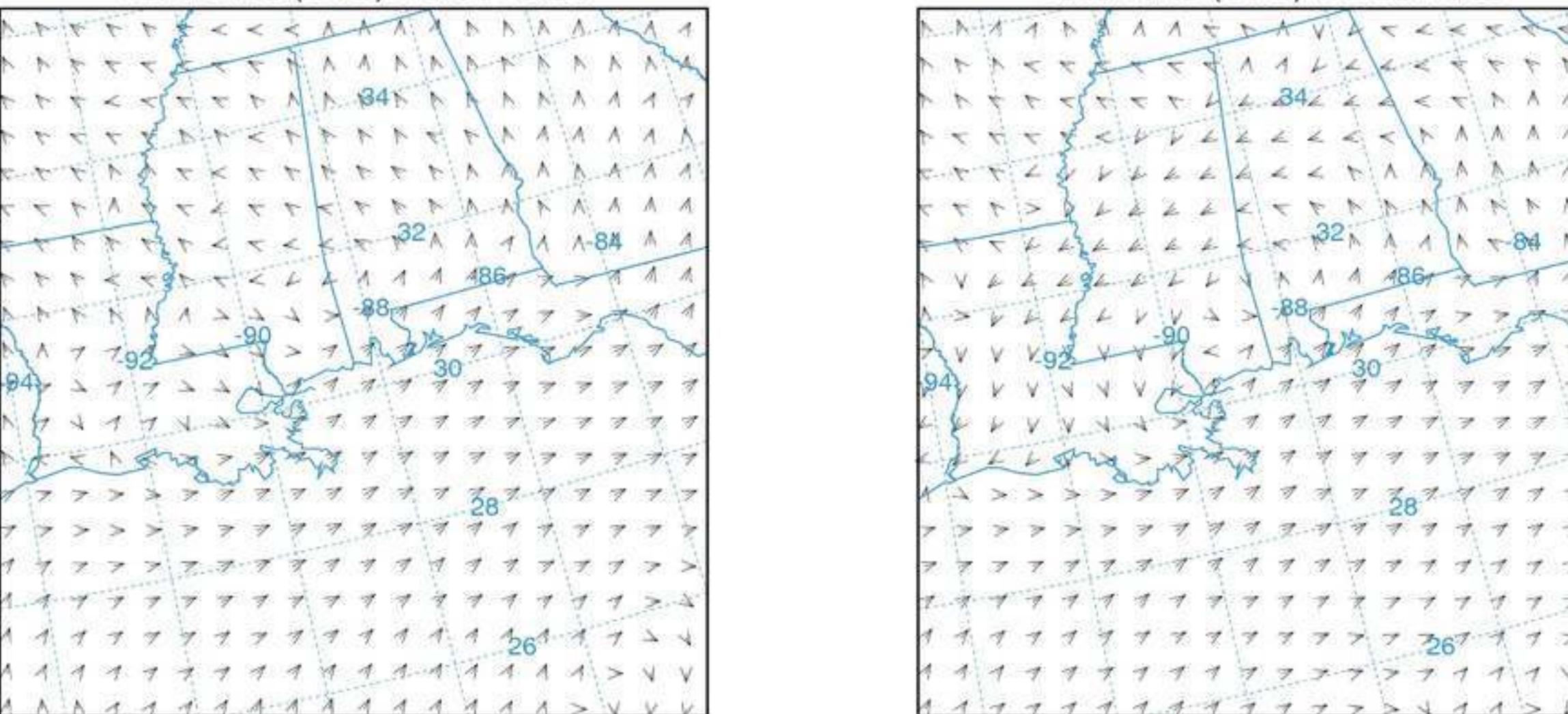


VECT (12) AT HEIGHT: 0.963

**Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/23

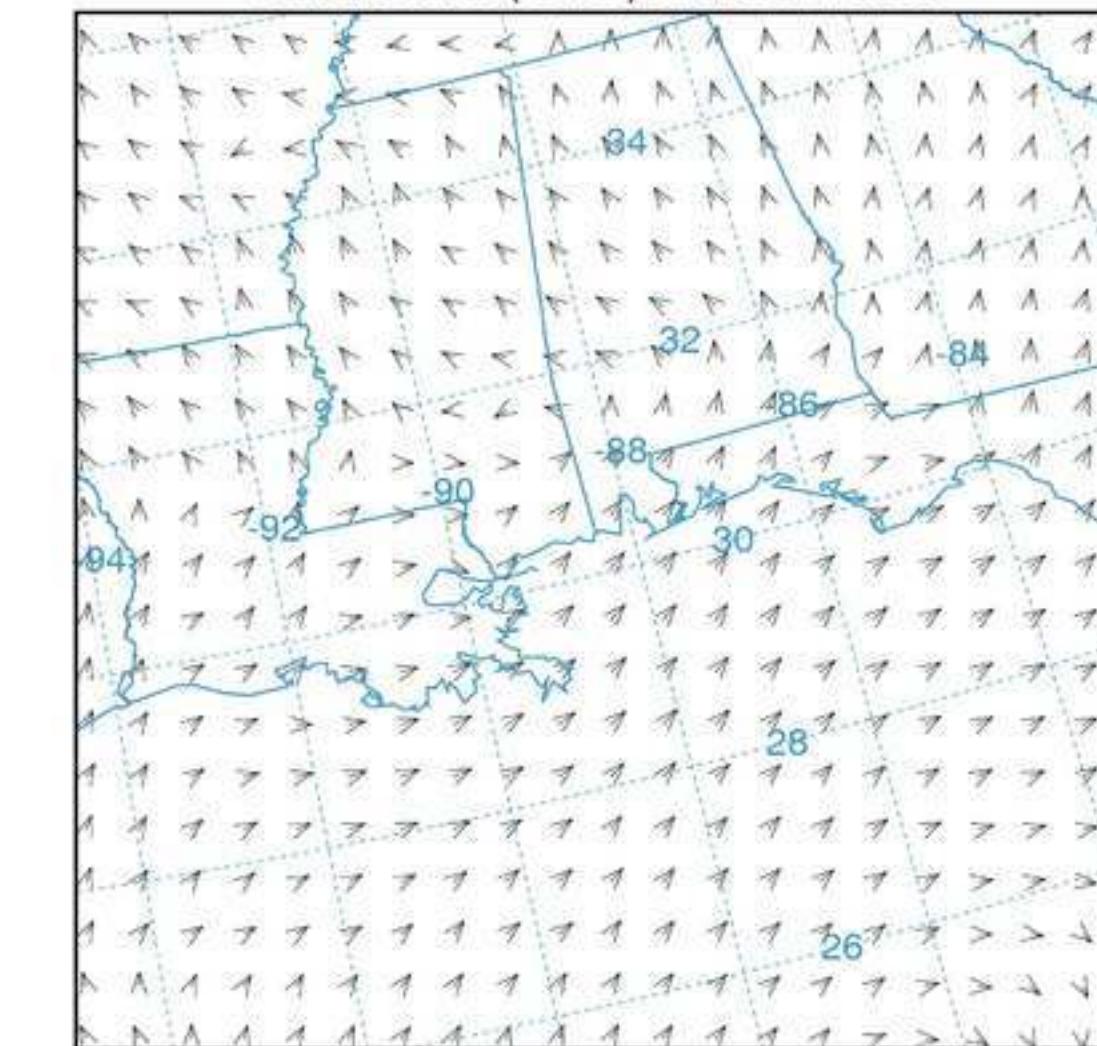


VECT (11) AT HEIGHT: 0.826

**Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/23

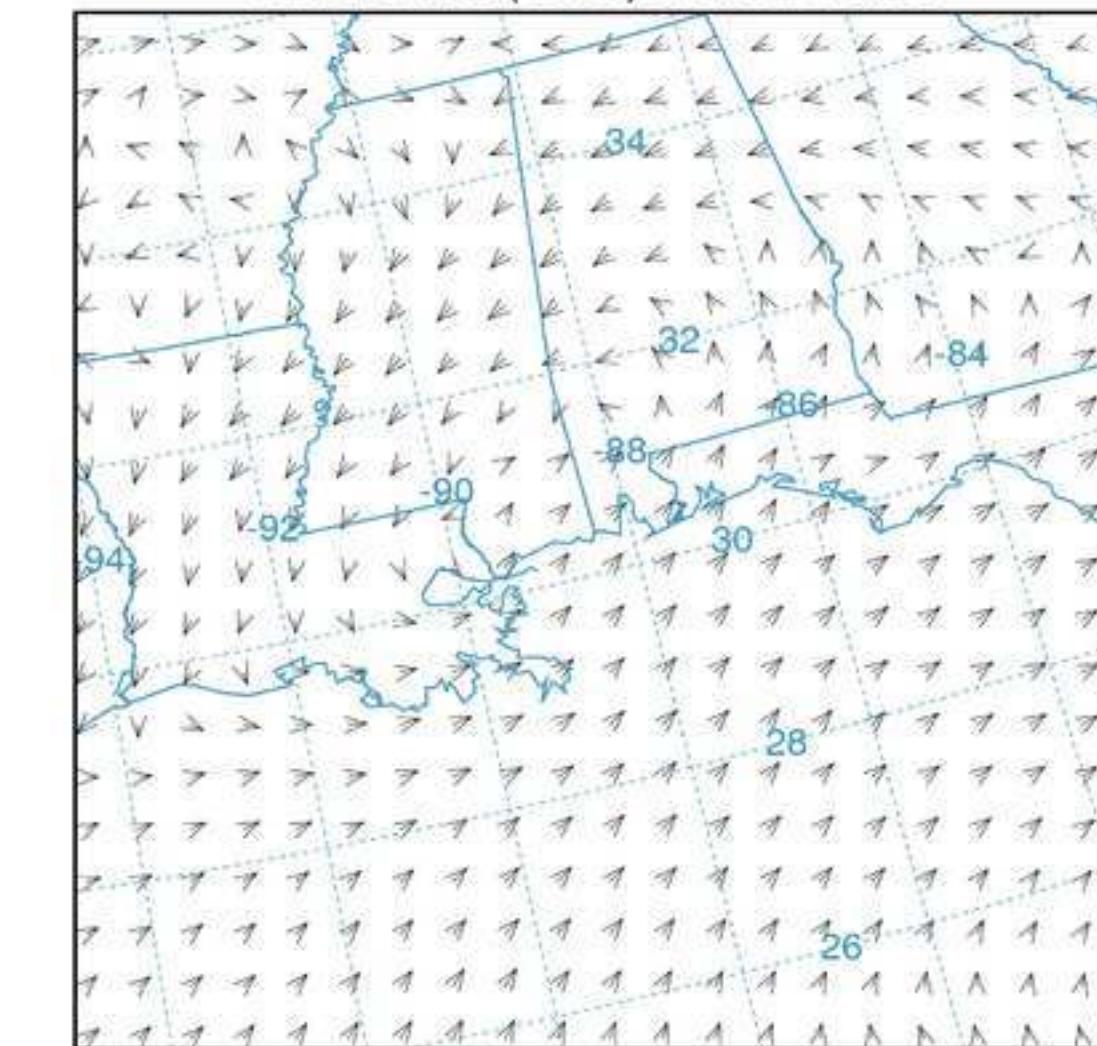


VECT (10) AT HEIGHT: 0.940

**Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/13/23

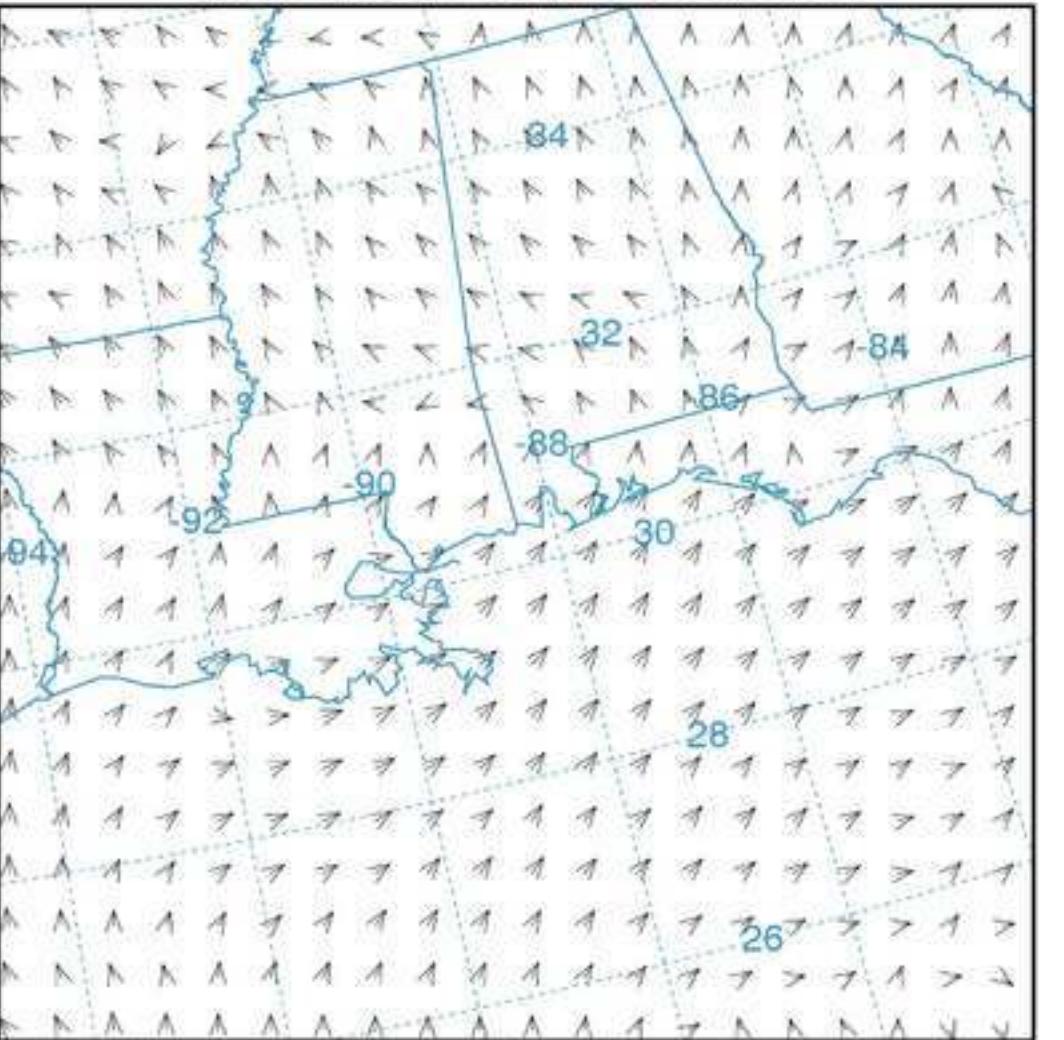


VECT (9) AT HEIGHT: 0.718

**Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/00

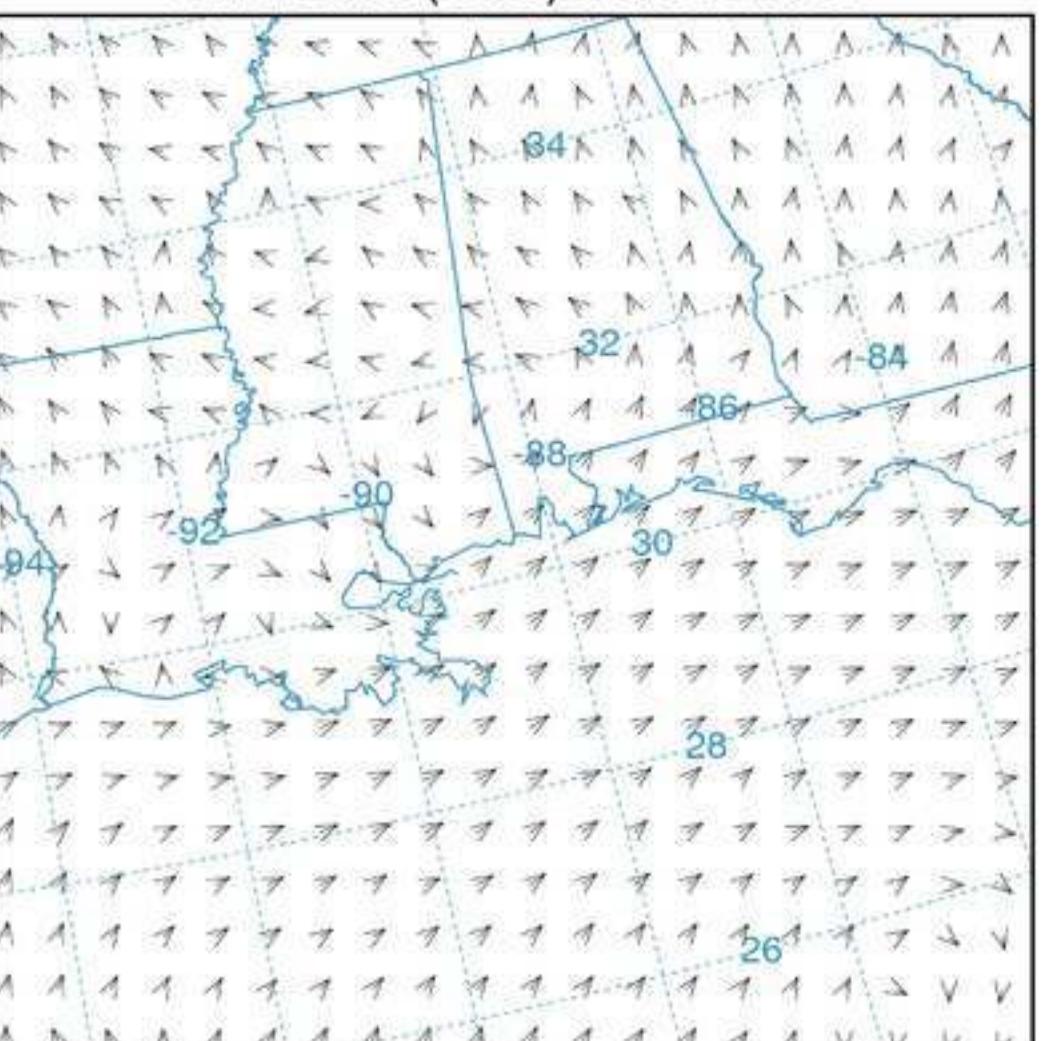


VECT (7) AT HEIGHT: 1.000

**Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/00

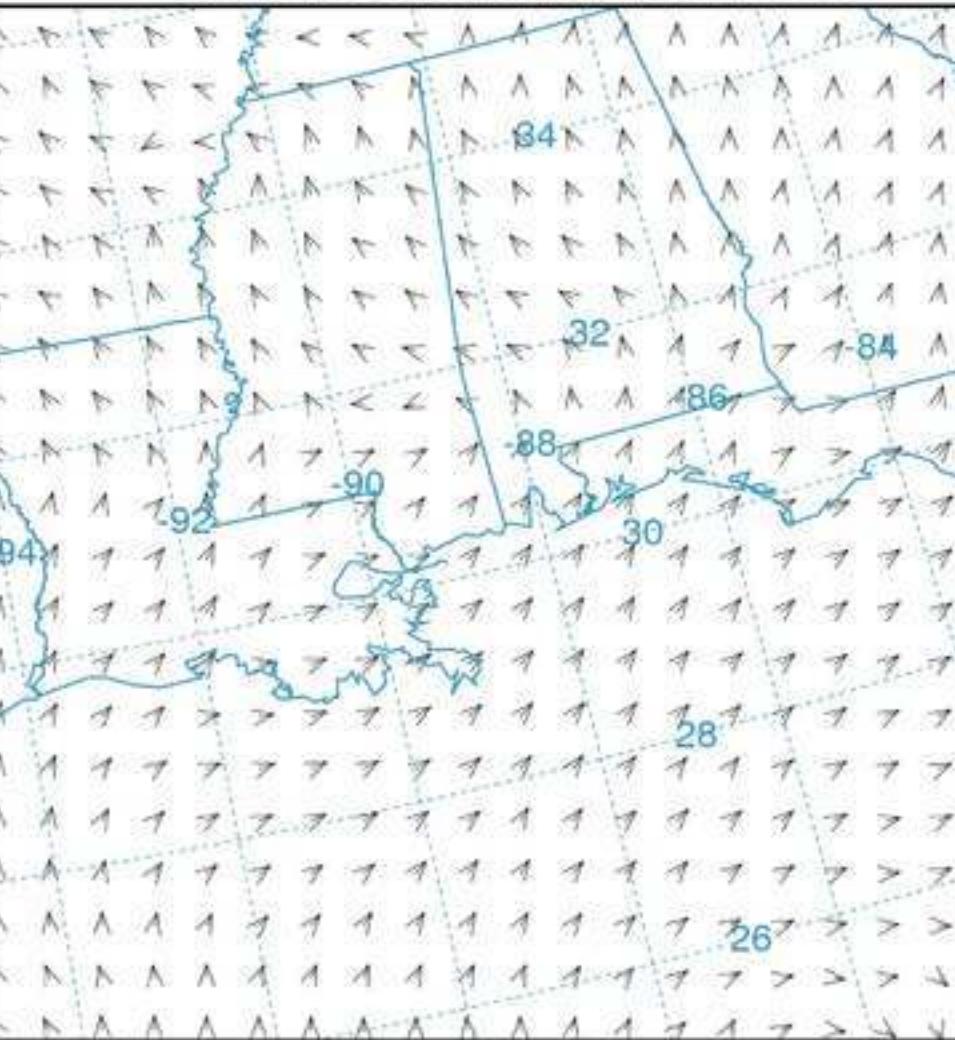


VECT (11) AT HEIGHT: 0.904

**Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/00



VECT (13) AT HEIGHT: 0.963

**Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/00

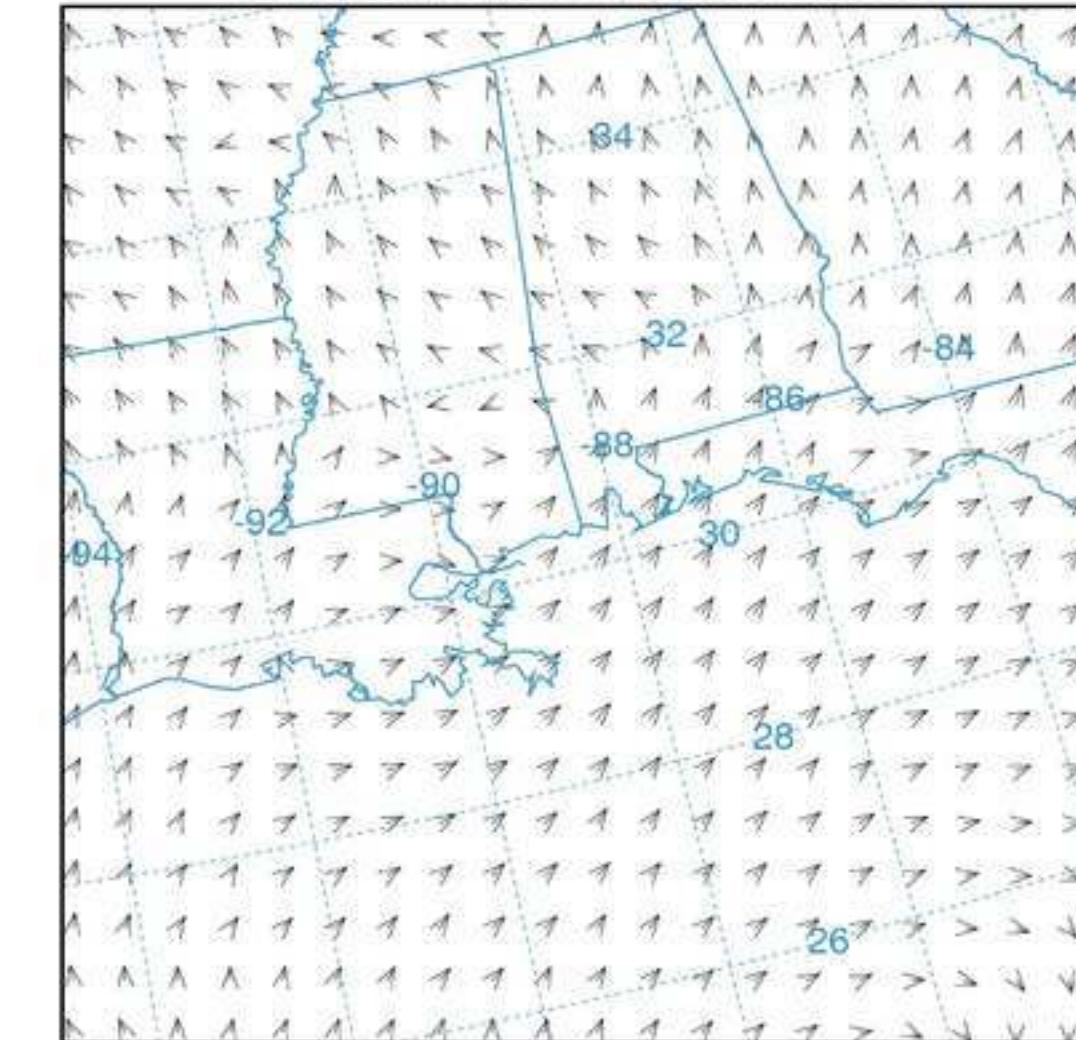


VECT (10) AT HEIGHT: 0.826

**Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/00

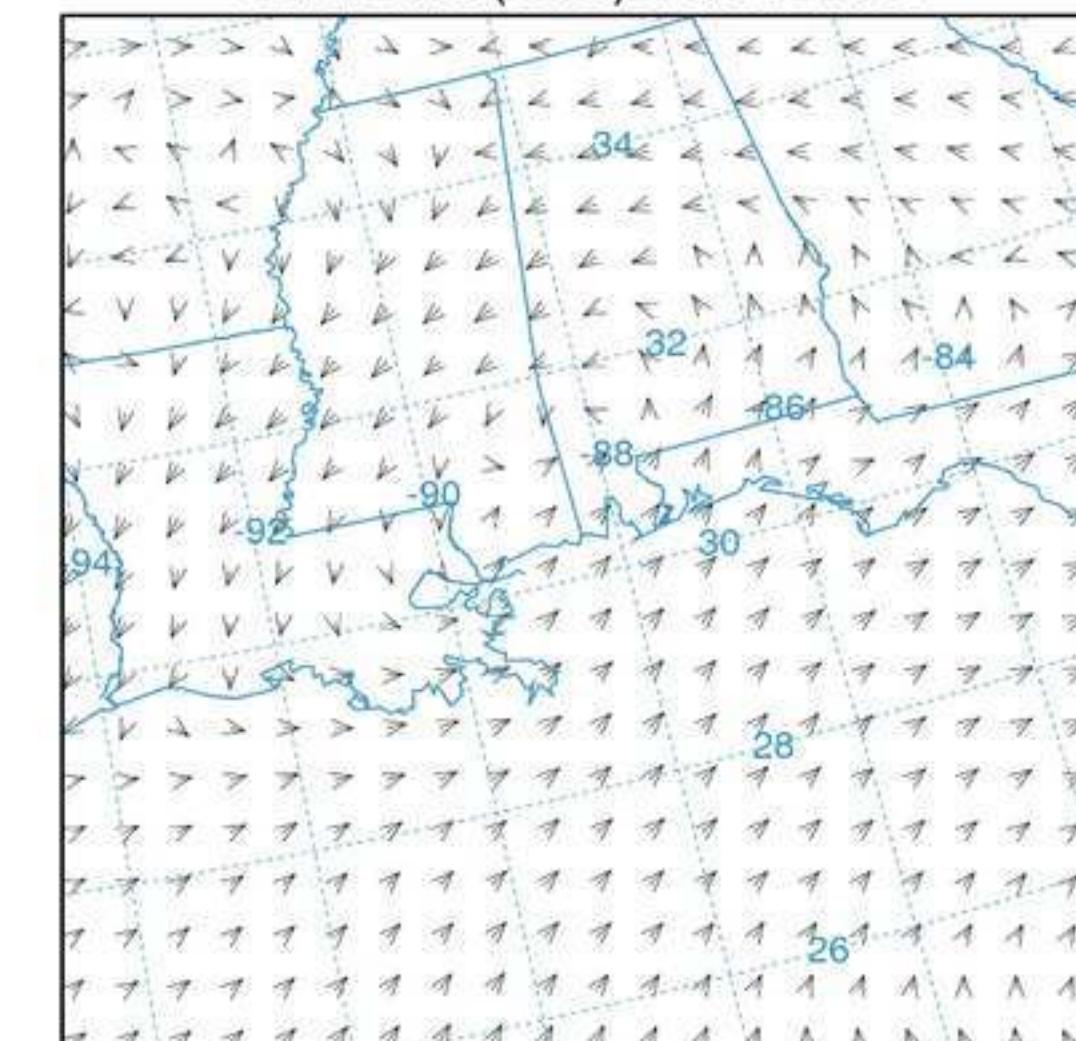


VECT (10) AT HEIGHT: 0.940

**Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/00

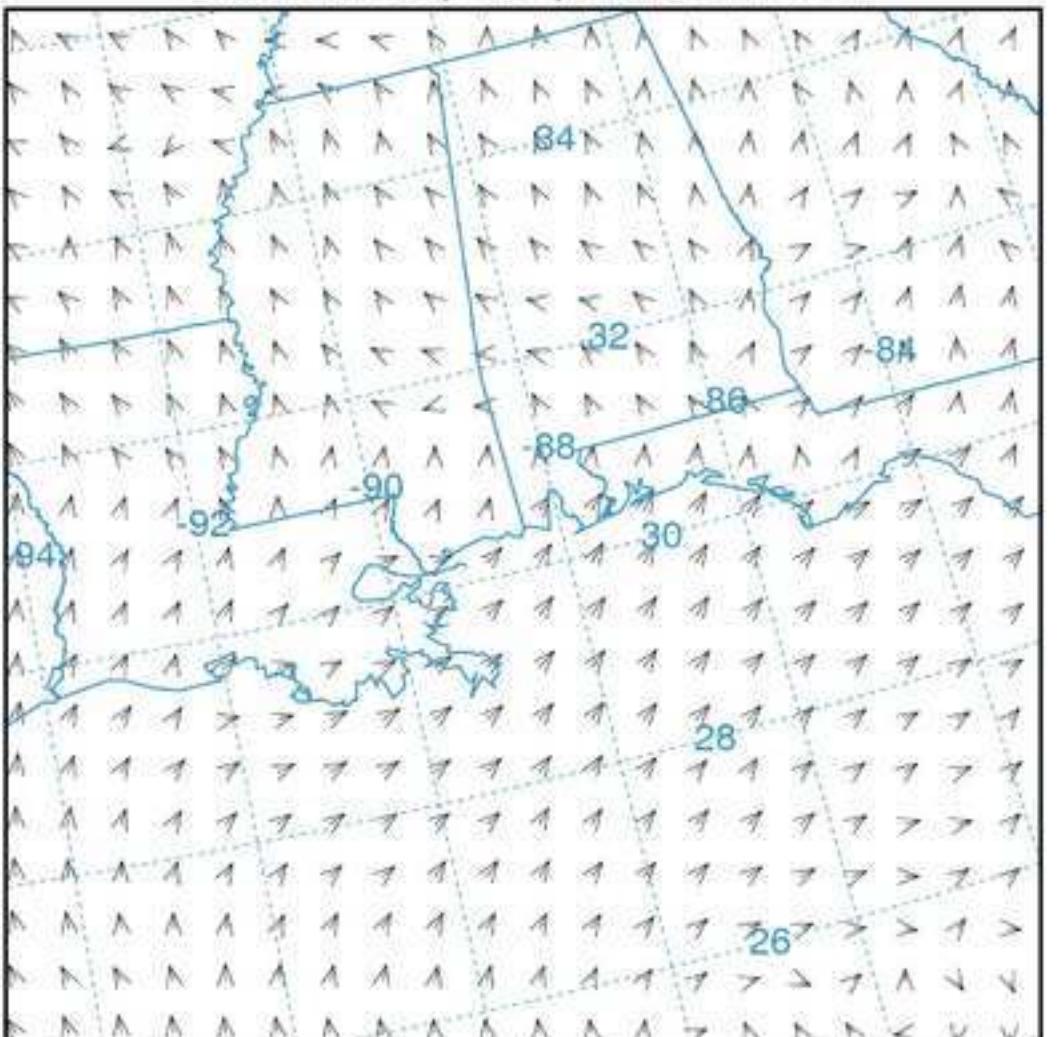


VECT (9) AT HEIGHT: 0.718

**Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/01

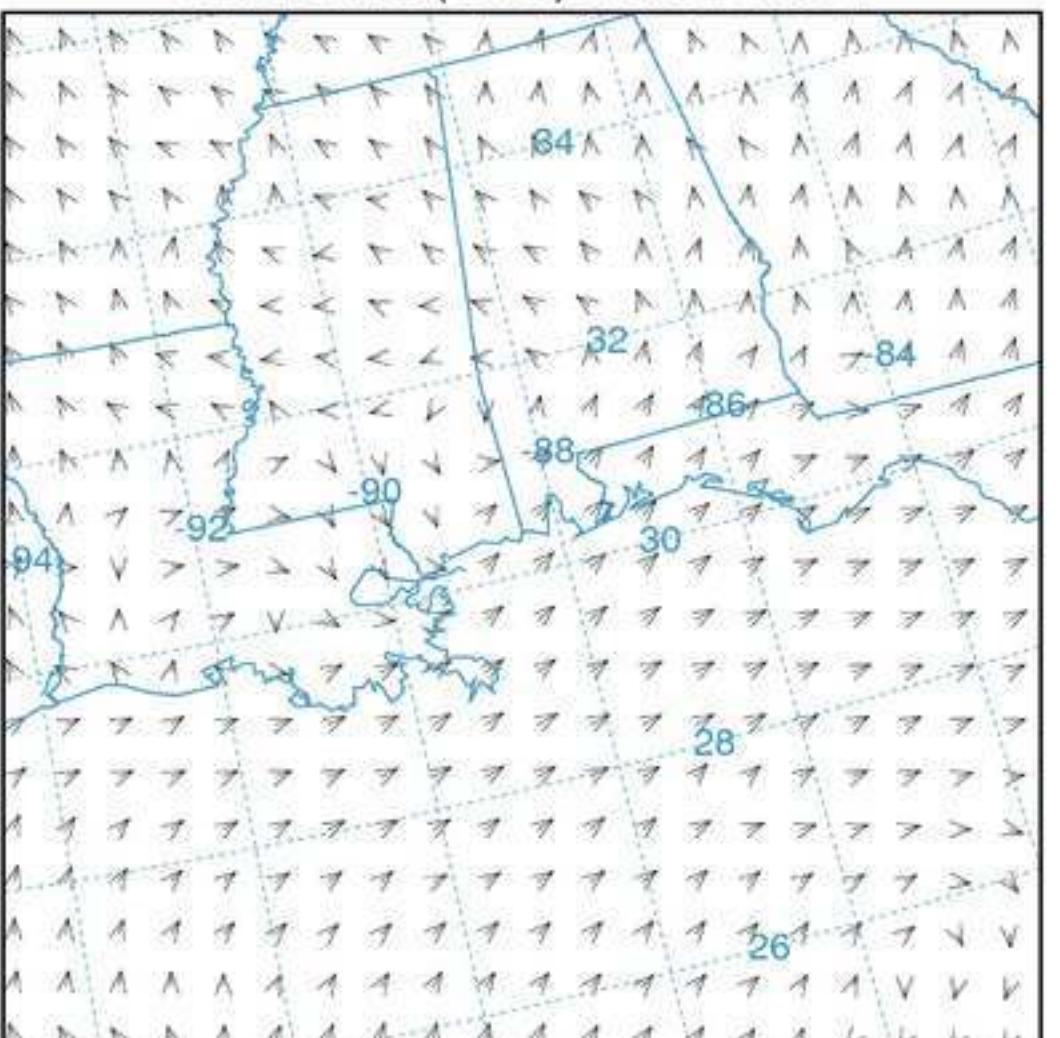


VECT (8) AT HEIGHT: 1.000

**Wind direction data for NAMS vertical level 1,
corresponding to the surface (~10 m)**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/01

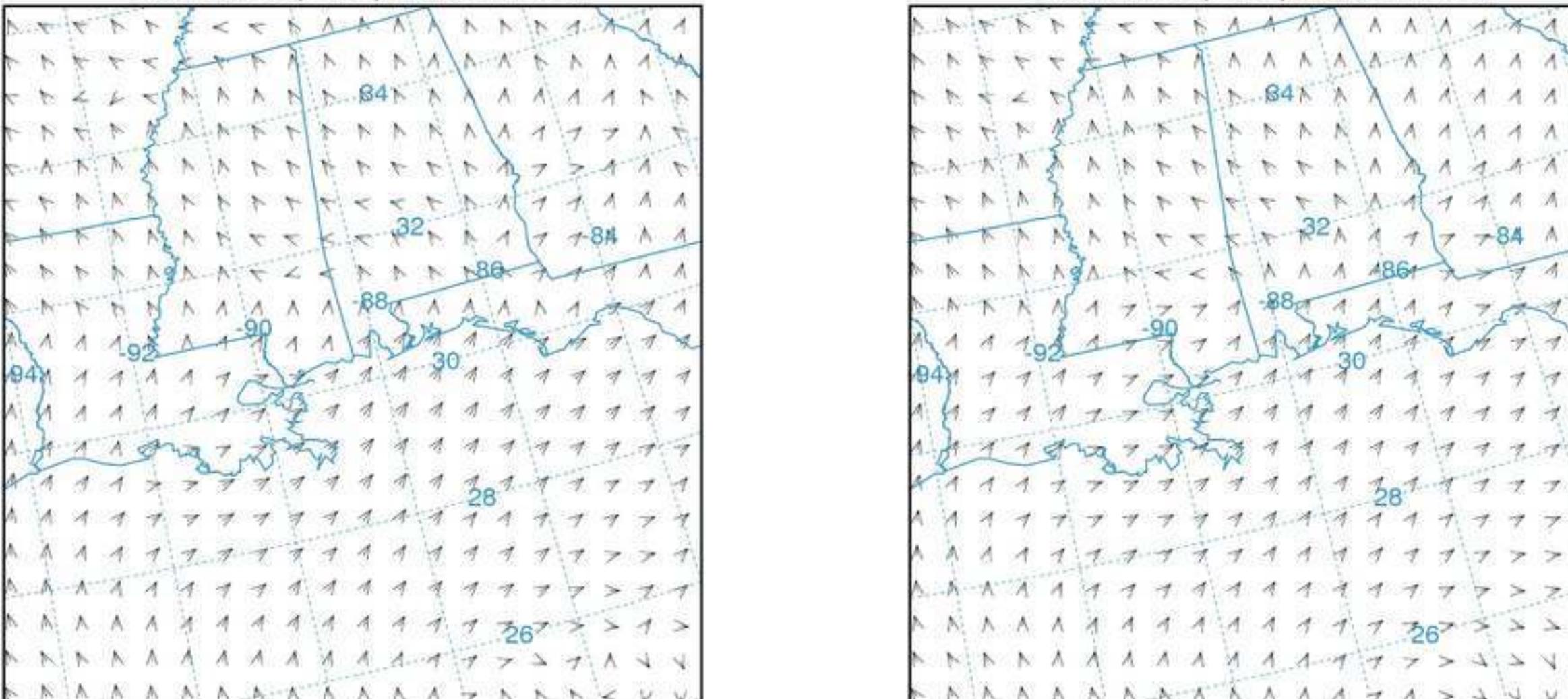


VECT (10) AT HEIGHT: 0.904

**Wind direction data for NAMS vertical level 18,
corresponding to a height of ~1000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/01

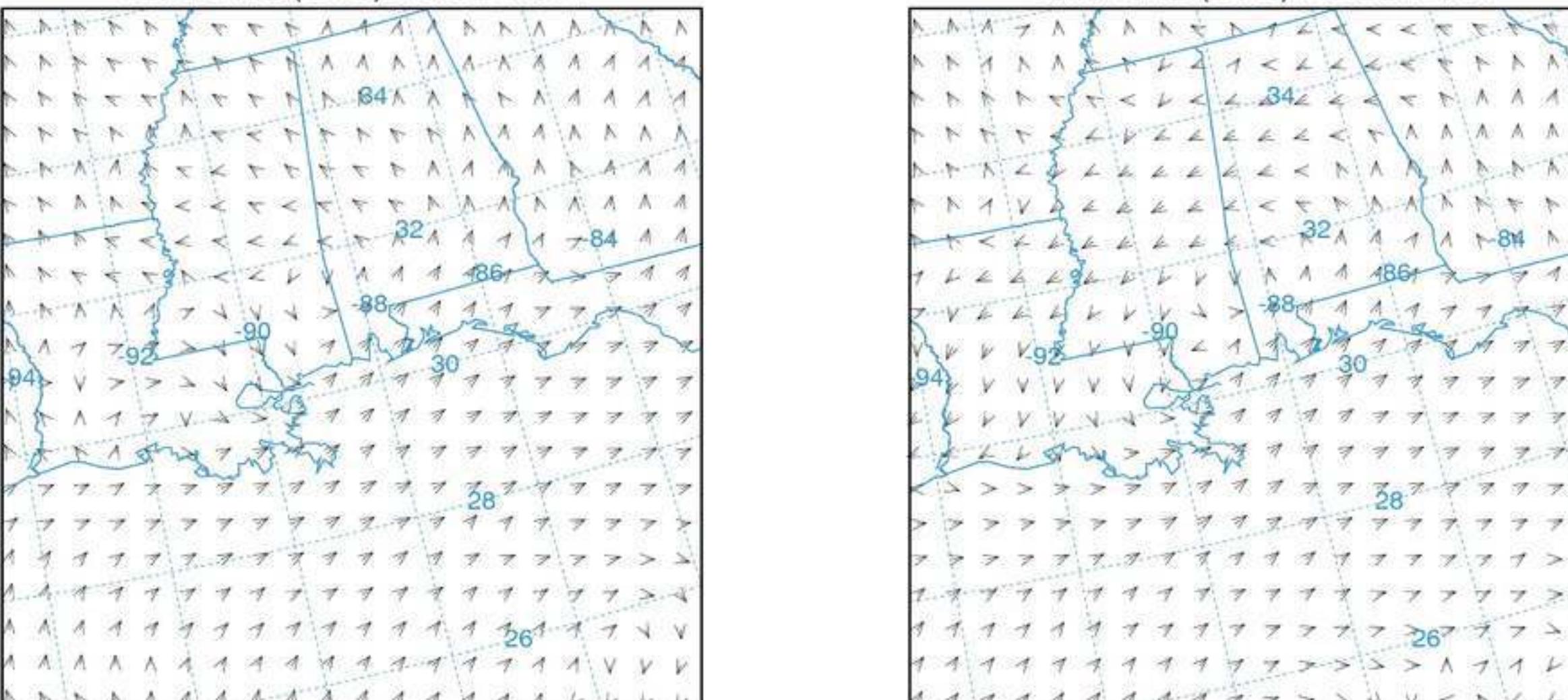


VECT (13) AT HEIGHT: 0.963

**Wind direction data for NAMS vertical level 9,
corresponding to a height of ~250 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/01

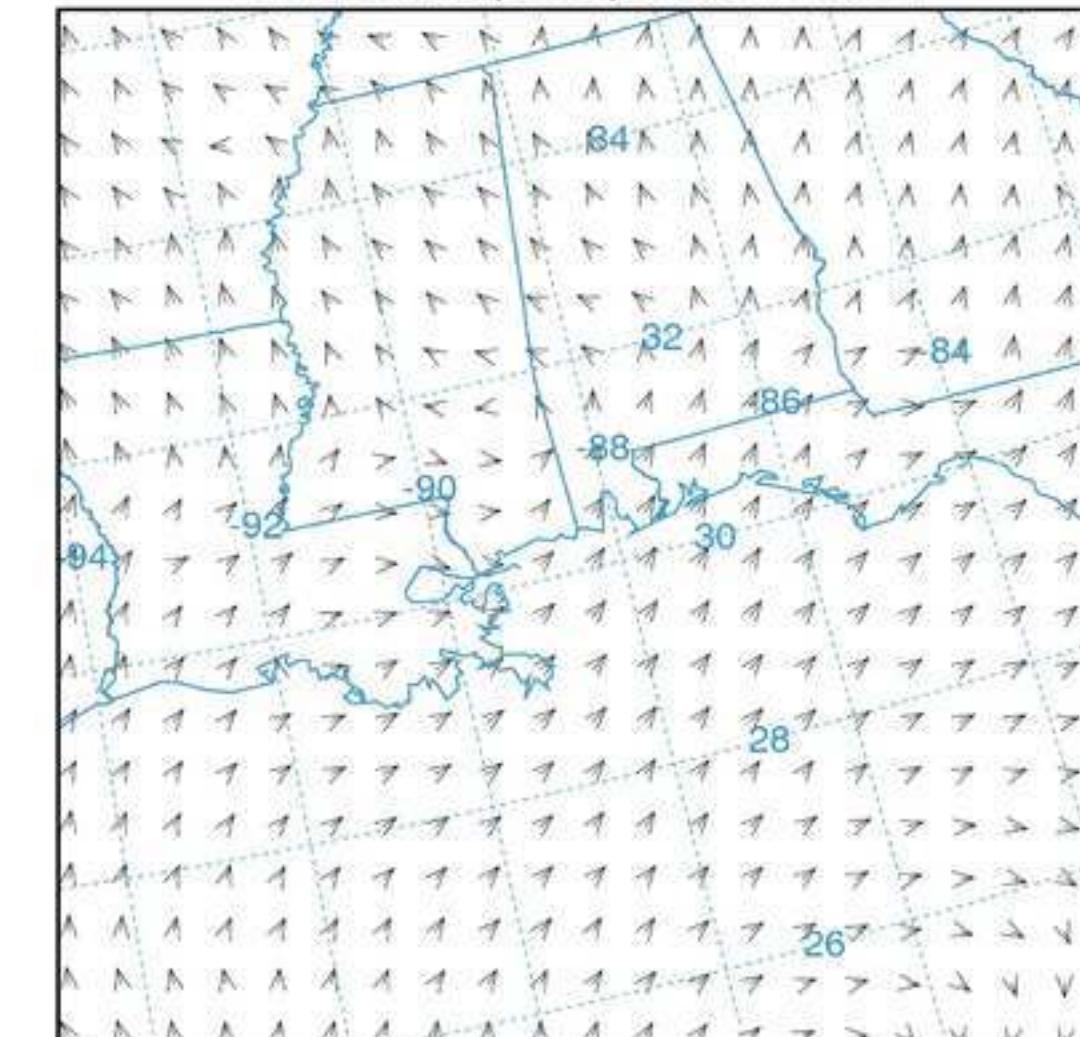


VECT (10) AT HEIGHT: 0.826

**Wind direction data for NAMS vertical level 21,
corresponding to a height of ~2000 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/01

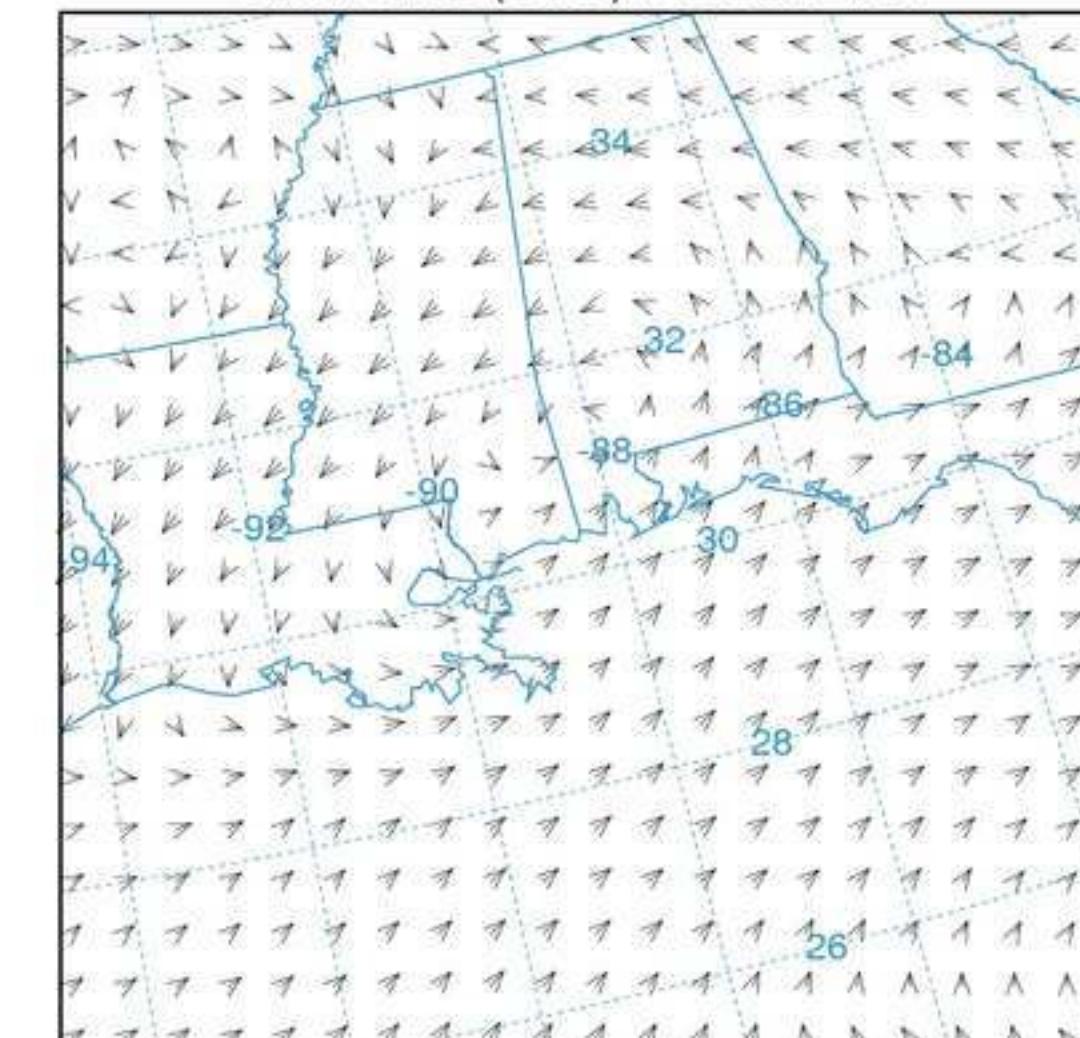


VECT (11) AT HEIGHT: 0.940

**Wind direction data for NAMS vertical level 13,
corresponding to a height of ~500 meters**

NOAA AIR RESOURCES LABORATORY

Valid Time (UTC): 10/08/14/01

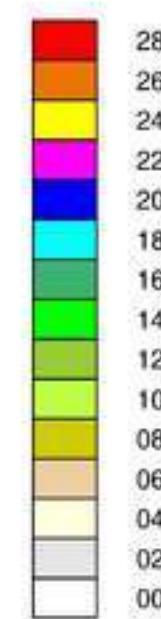
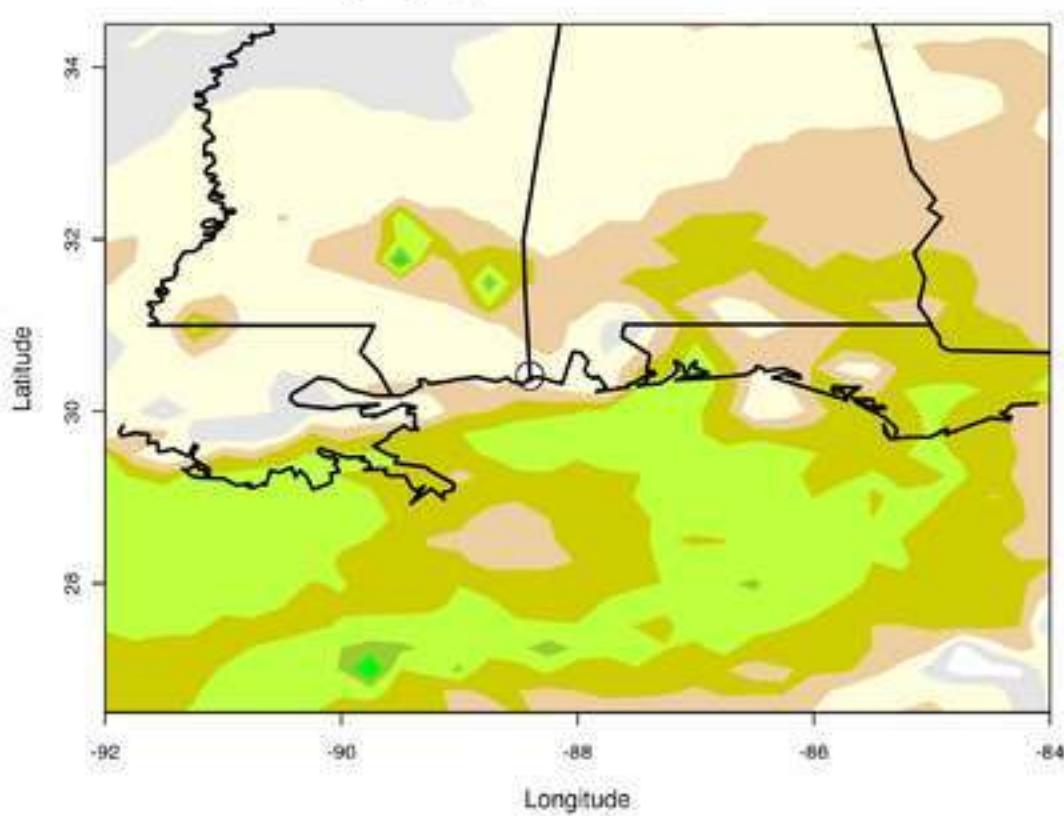


VECT (9) AT HEIGHT: 0.718

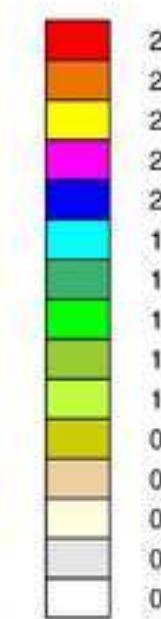
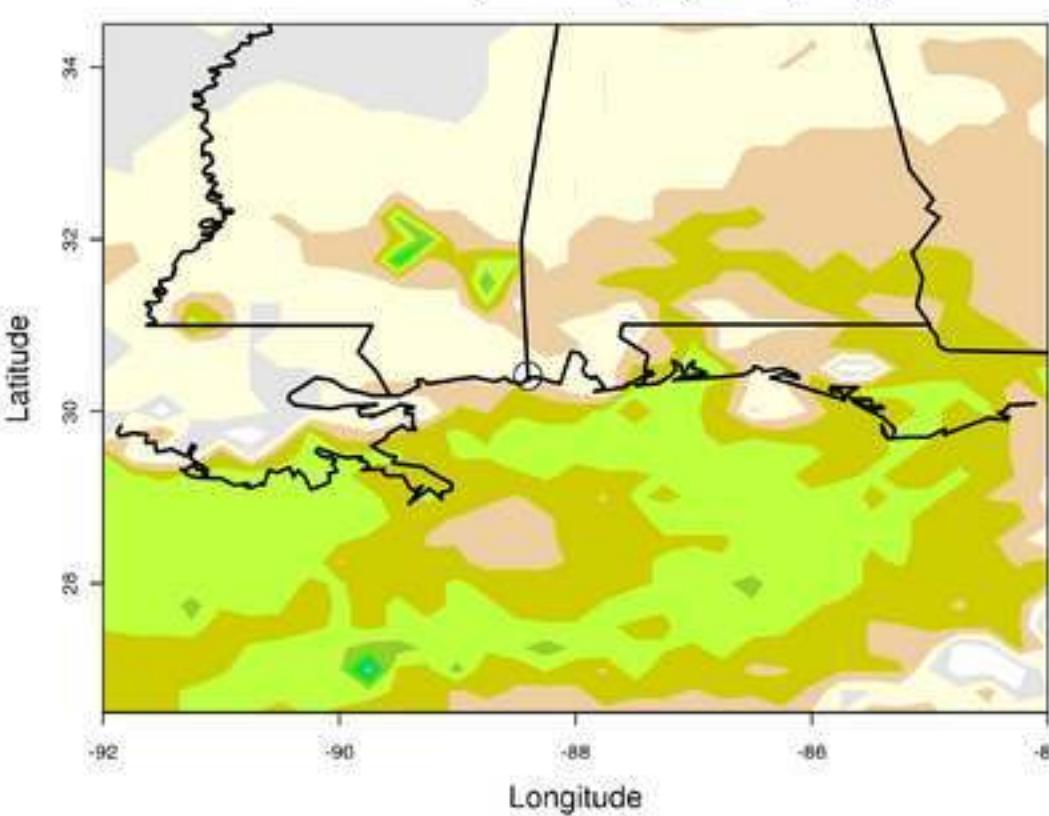
**Wind direction data for NAMS vertical level 24,
corresponding to a height of ~3000 meters**

FORECAST for 2010_08_13, local hour = 09

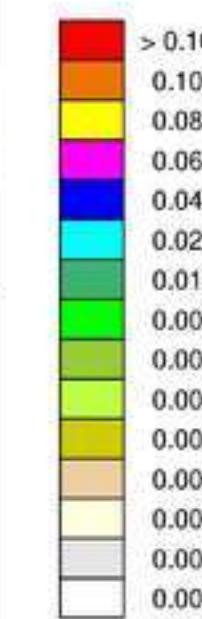
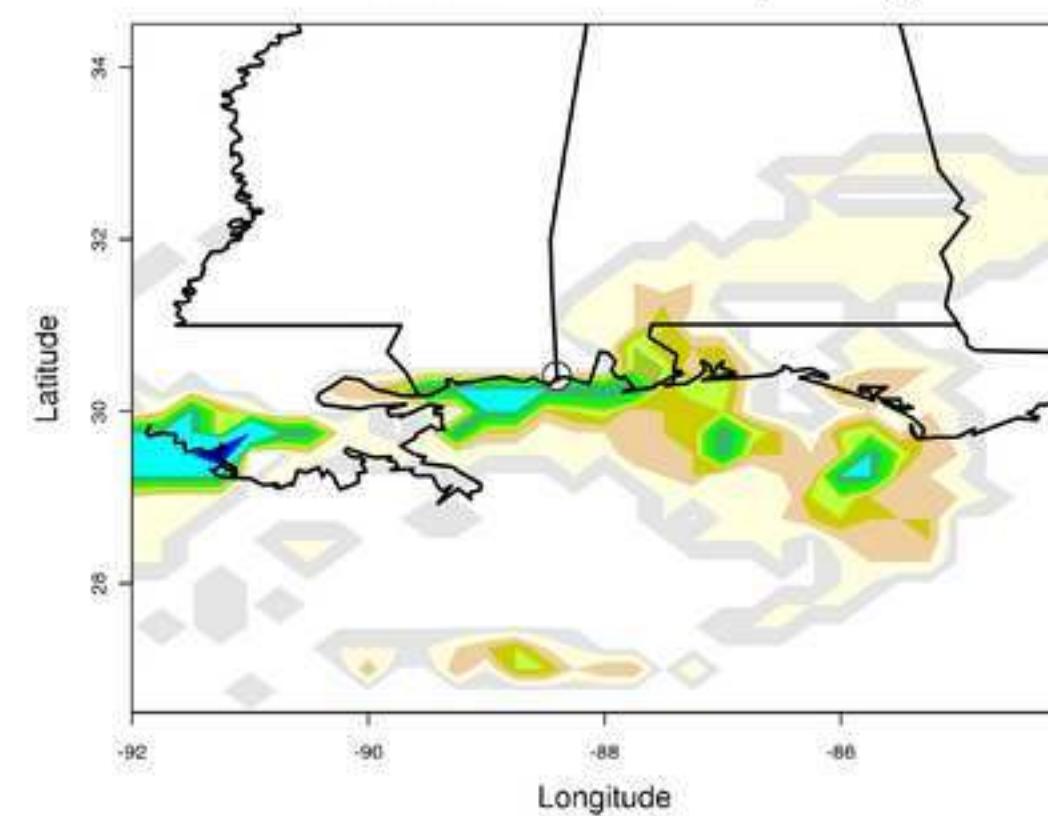
Mixing Heights (m) Estimated with the HYSPLIT Model



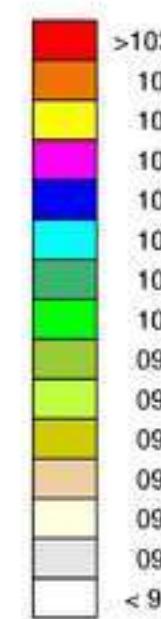
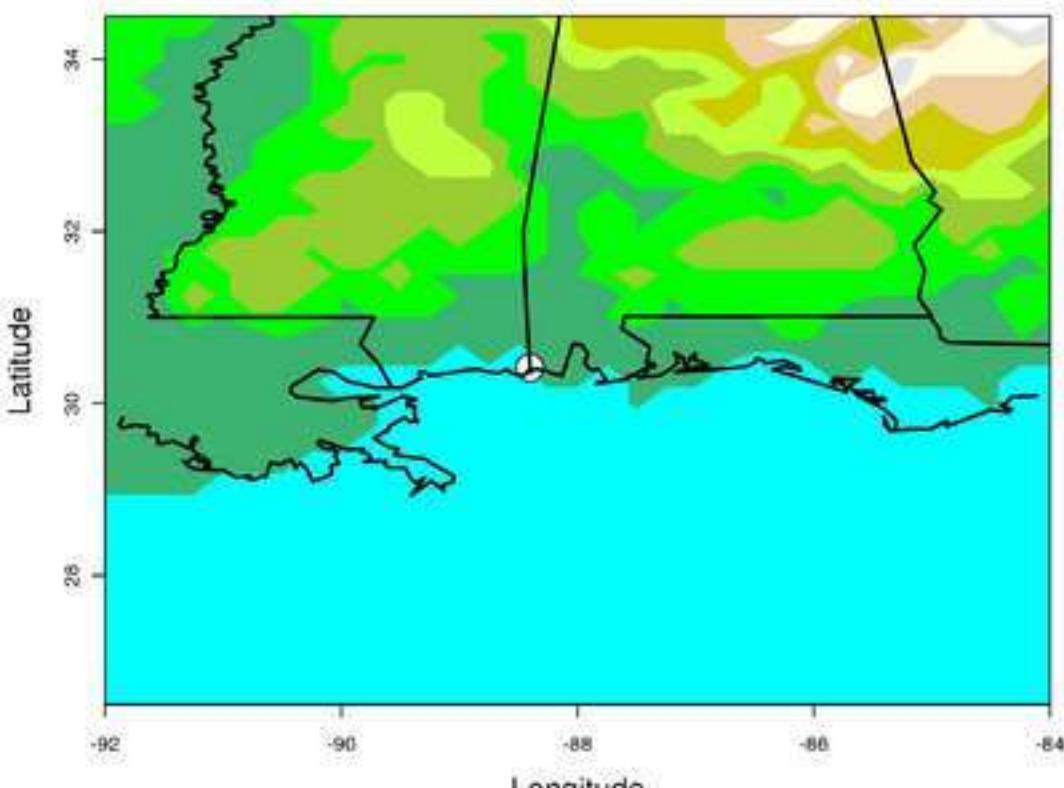
PBLH: Planetary Boundary Layer Height (m)



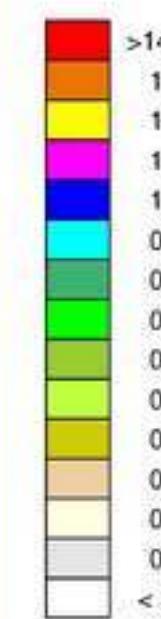
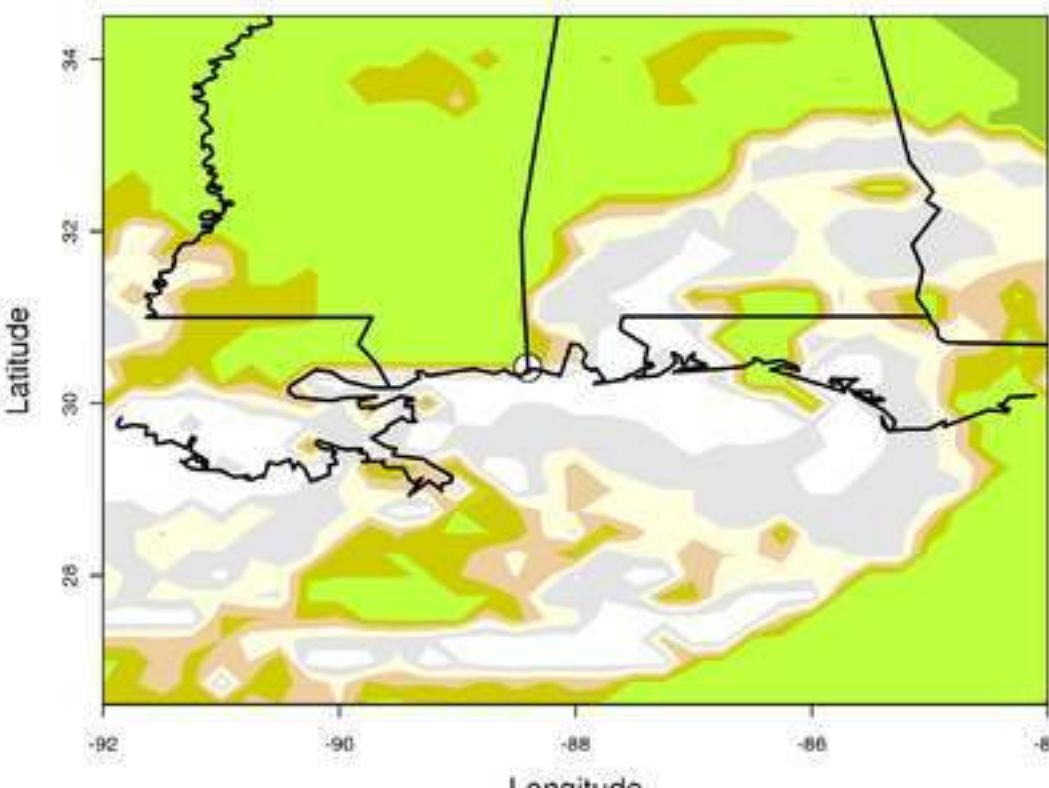
TPP3: 3-hour Accumulated Precipitation (m)



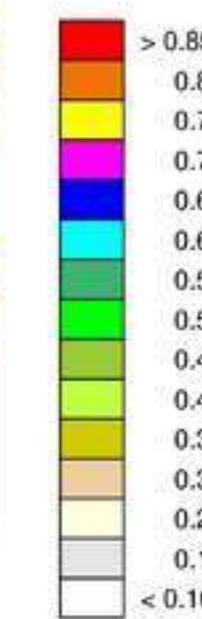
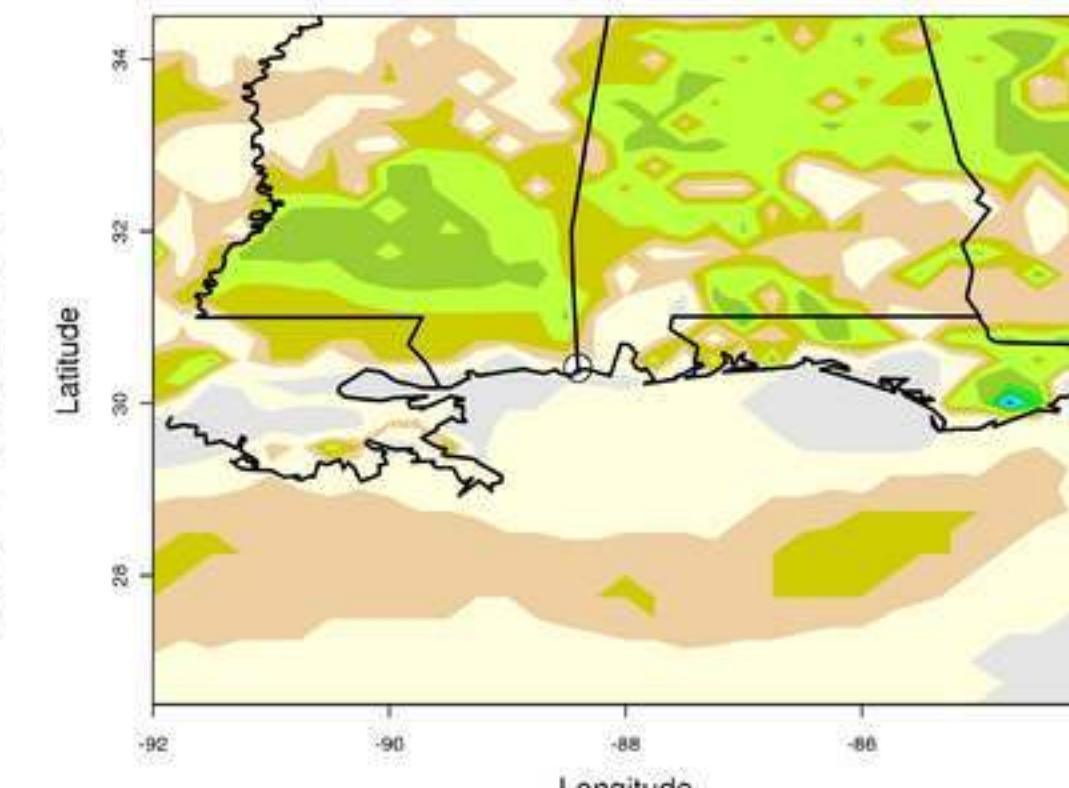
PRSS: Surface Pressure (hPa)



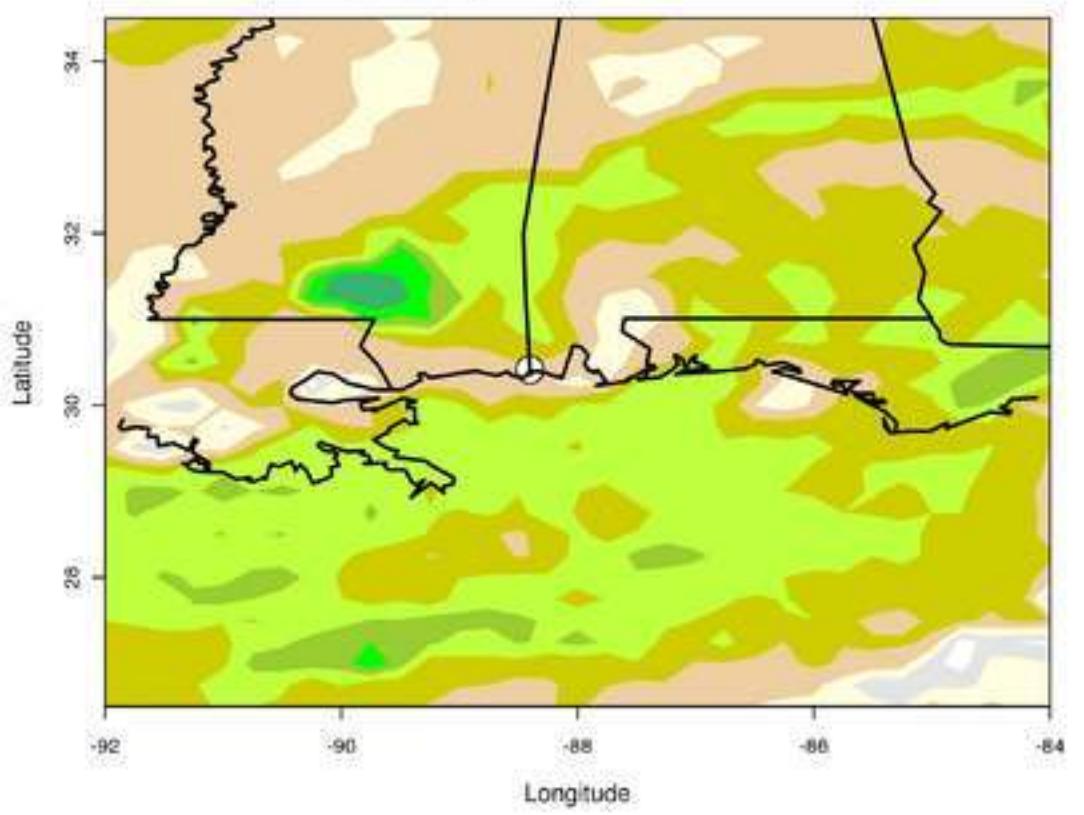
DSWF: Downward Short Wave Radiation Flux (W/m²)



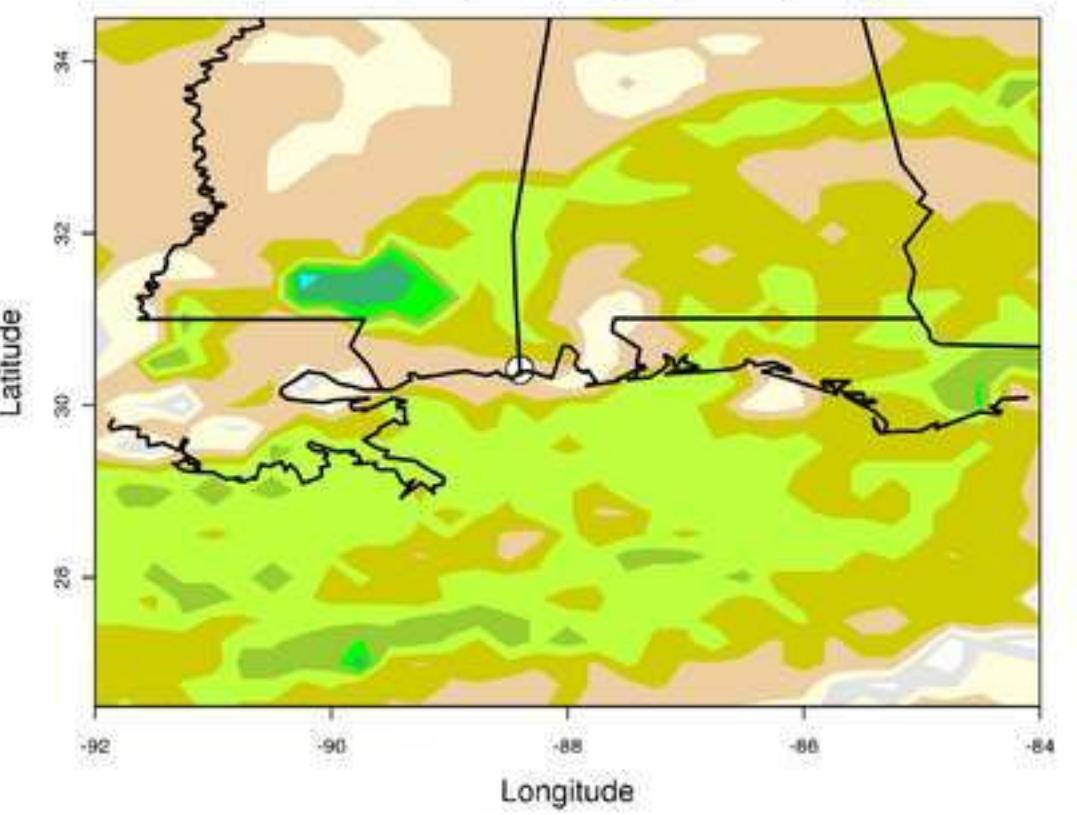
USTR: Friction Velocity (m/sec)



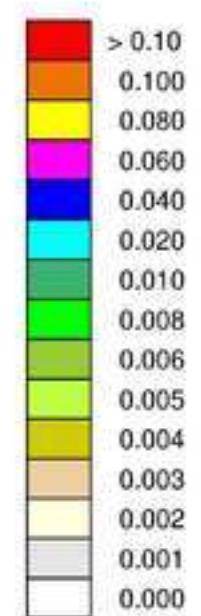
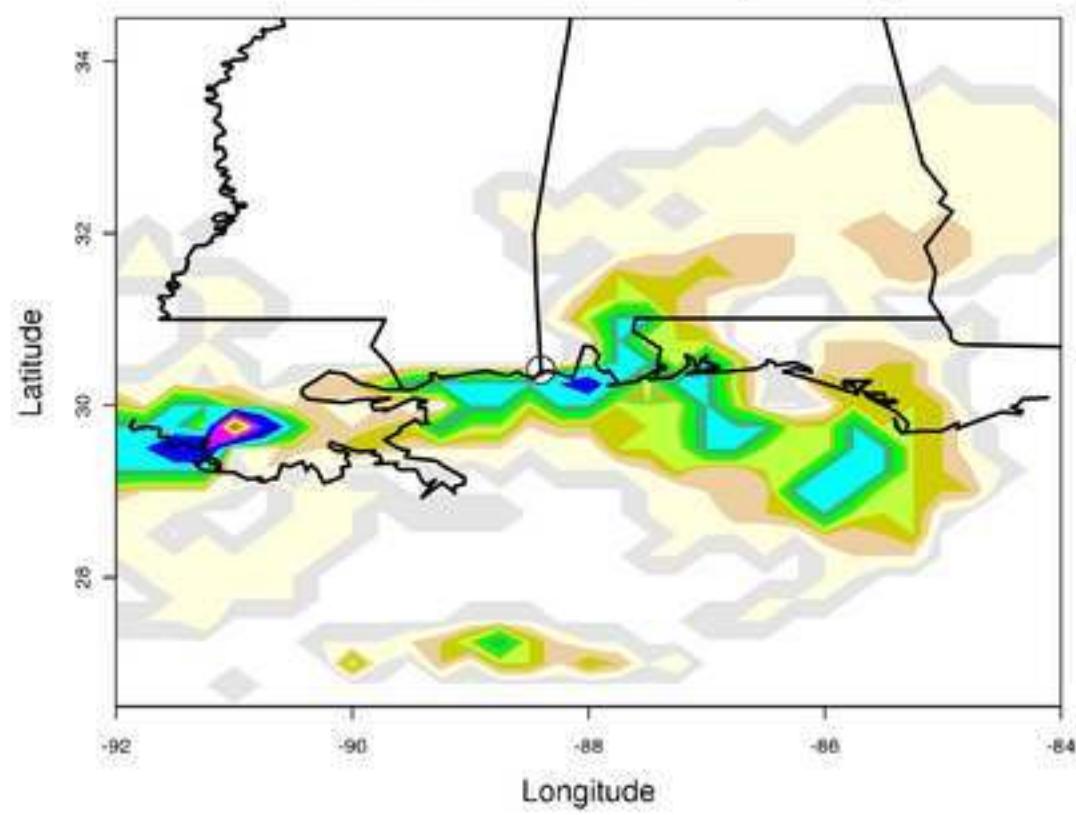
FORECAST for 2010_08_13, local hour = 10
Mixing Heights (m) Estimated with the HYSPLIT Model



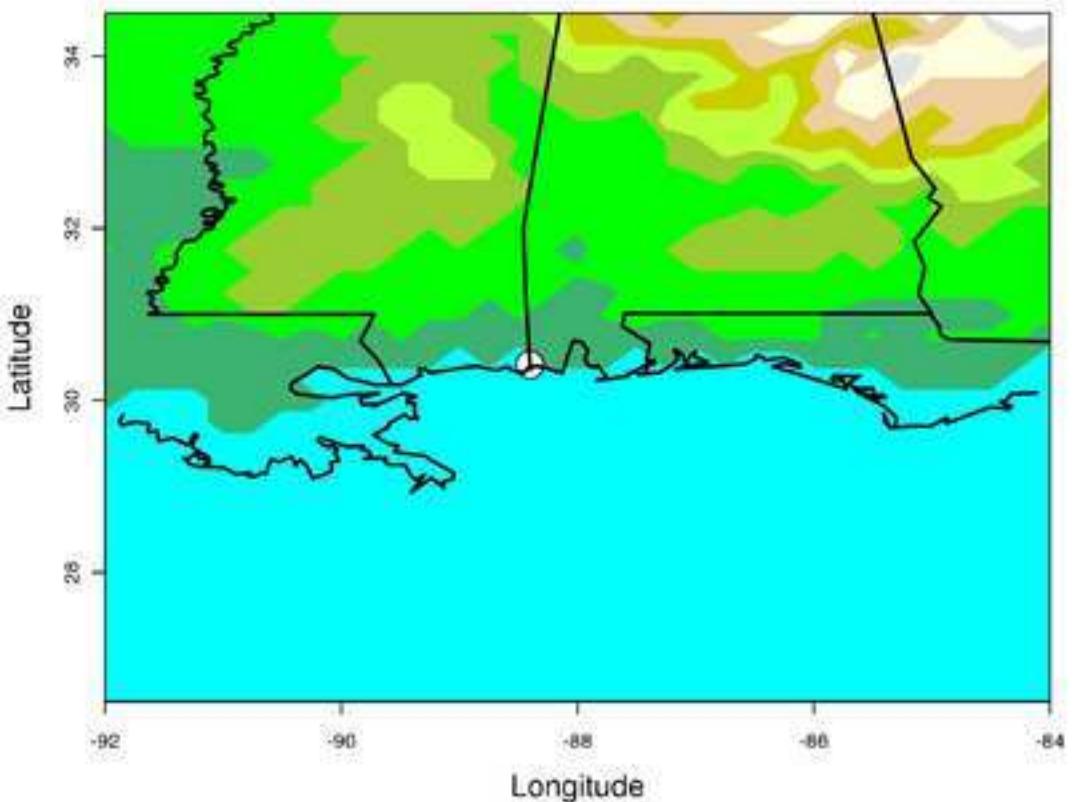
PBLH: Planetary Boundary Layer Height (m)



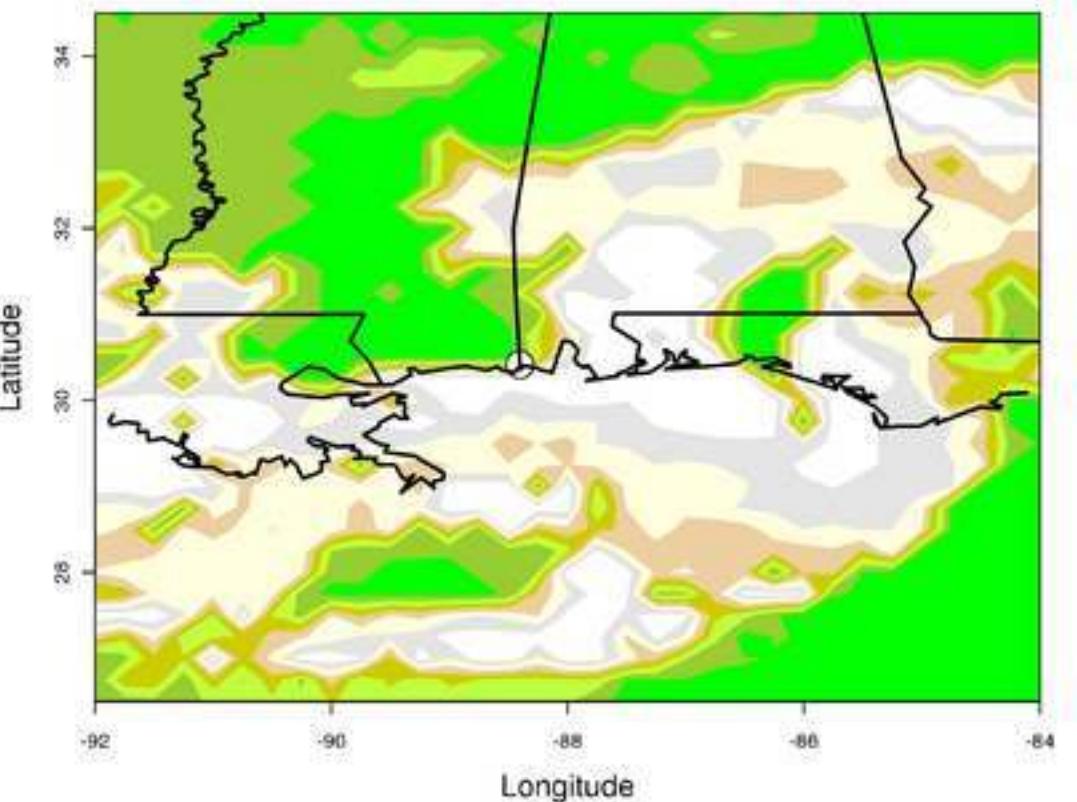
TPP3: 3-hour Accumulated Precipitation (m)



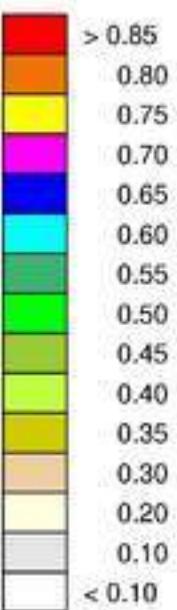
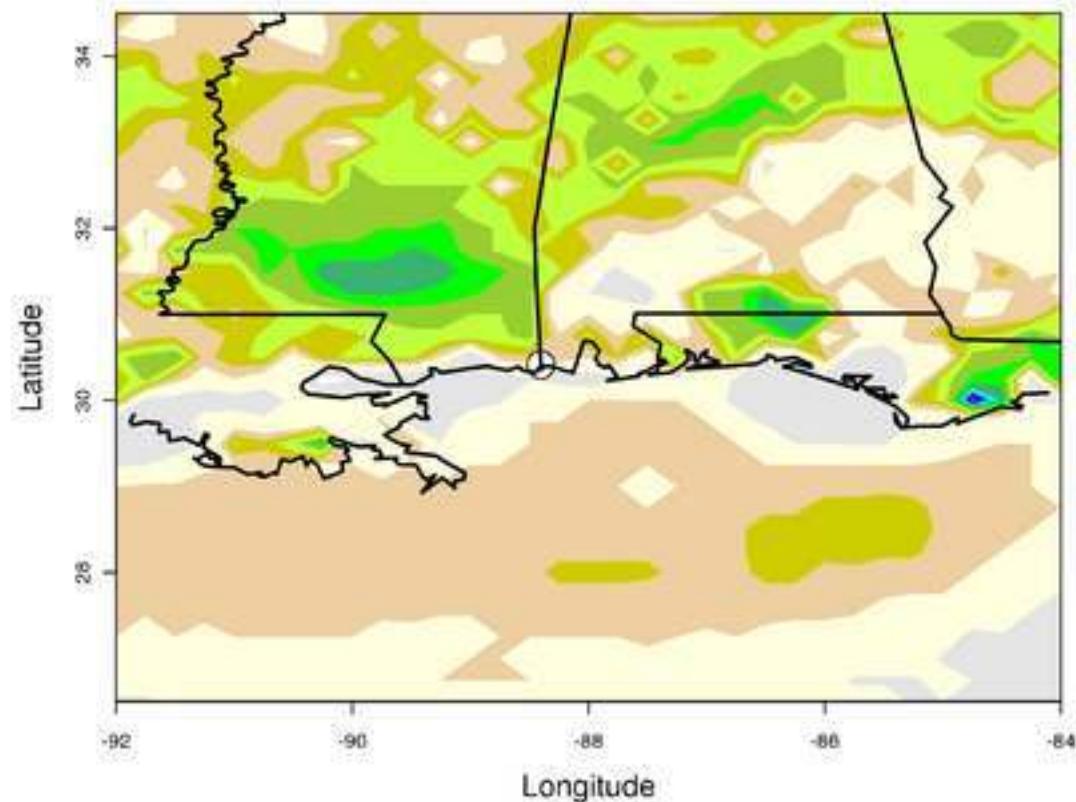
PRSS: Surface Pressure (hPa)



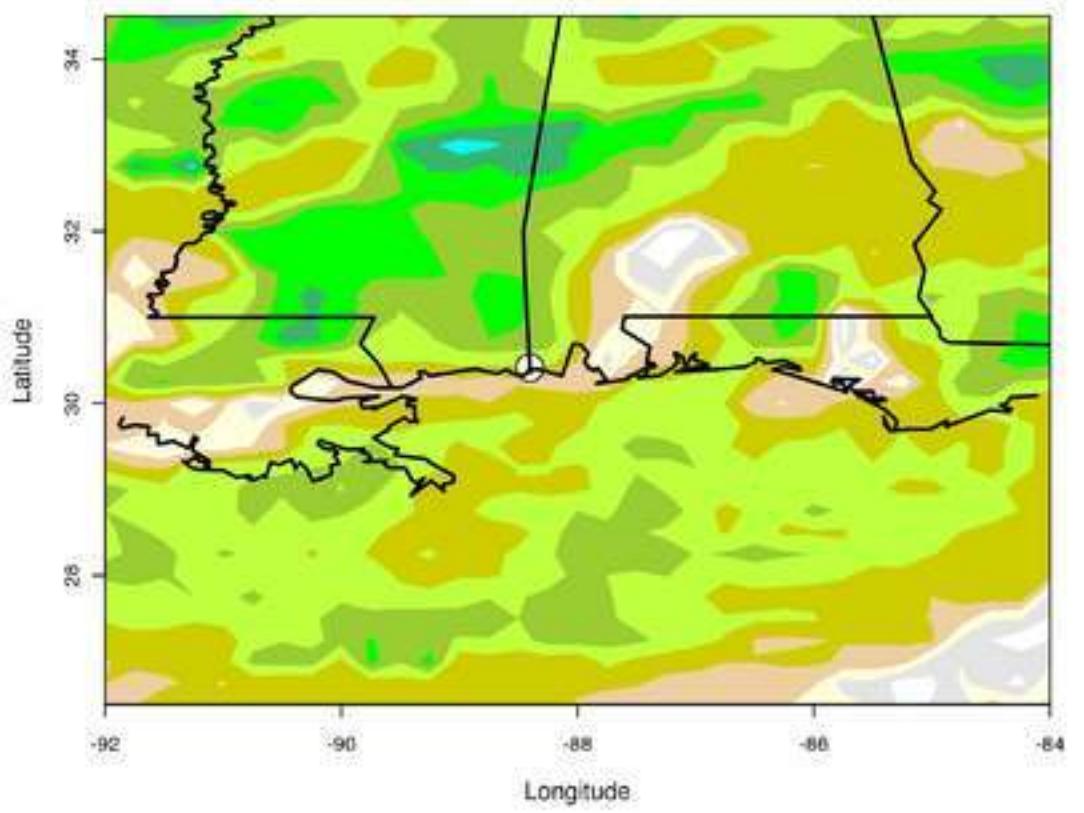
DSWF: Downward Short Wave Radiation Flux (W/m²)



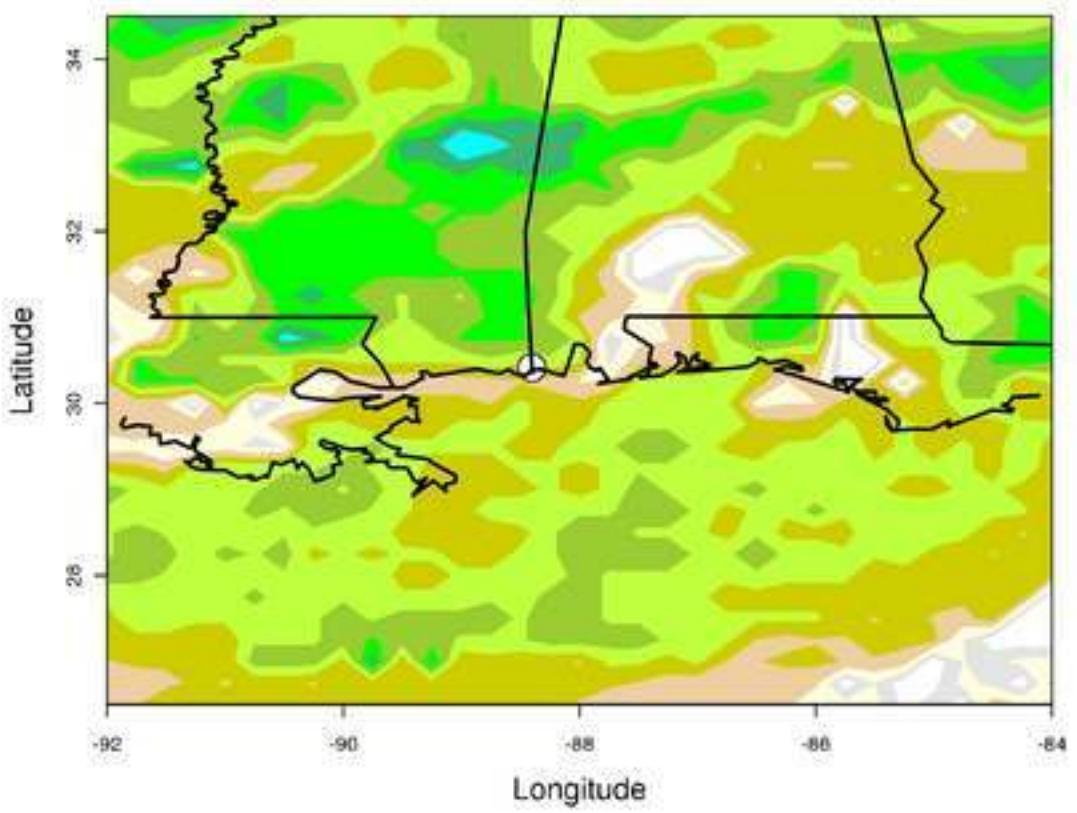
USTR: Friction Velocity (m/sec)



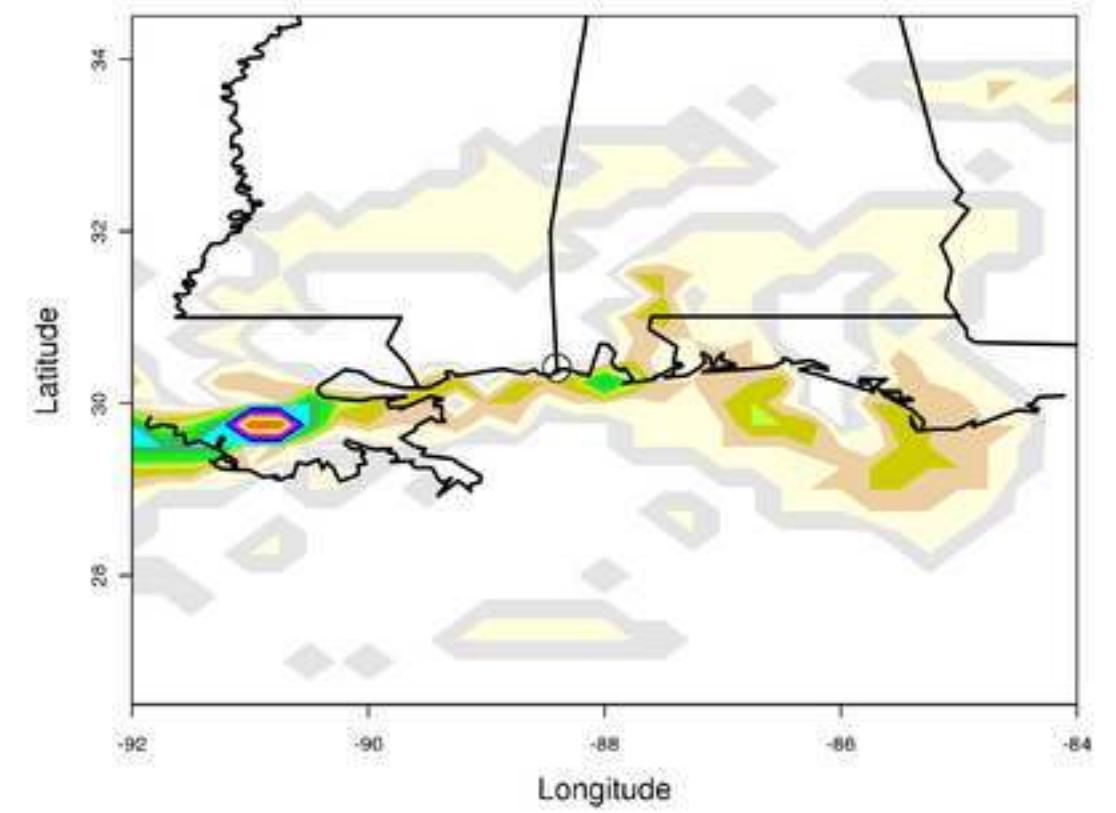
FORECAST for 2010_08_13, local hour = 11
Mixing Heights (m) Estimated with the HYSPLIT Model



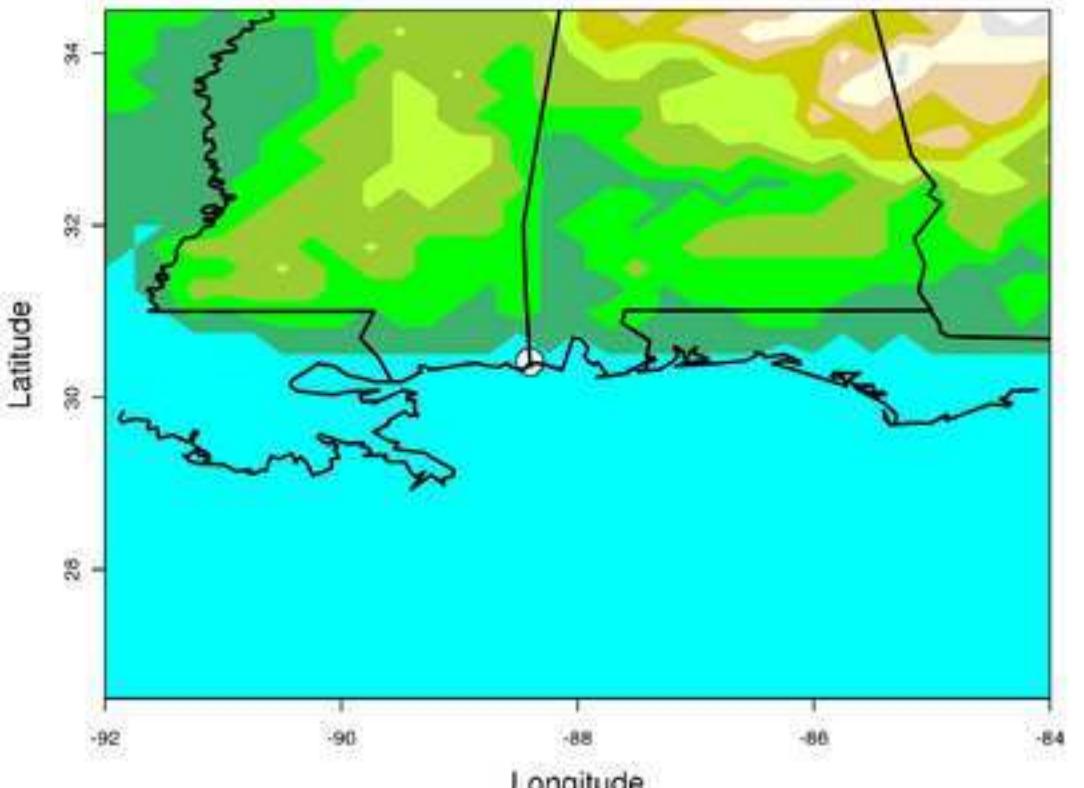
PBLH: Planetary Boundary Layer Height (m)



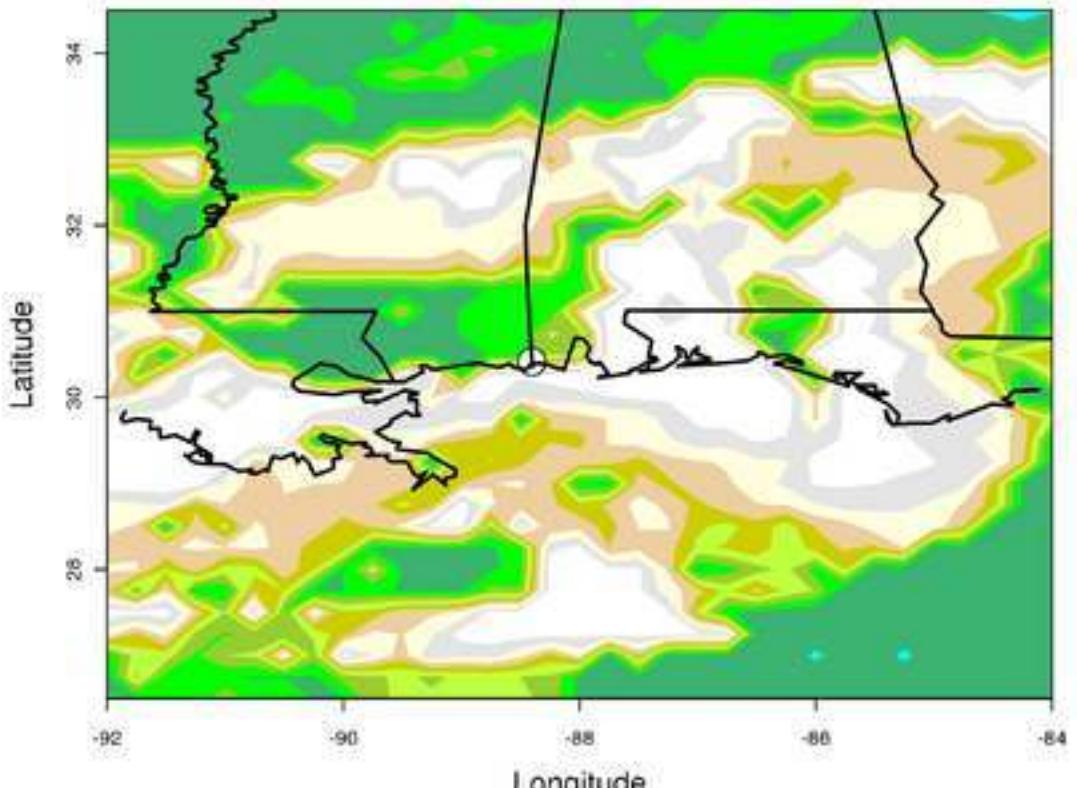
TPP3: 3-hour Accumulated Precipitation (m)



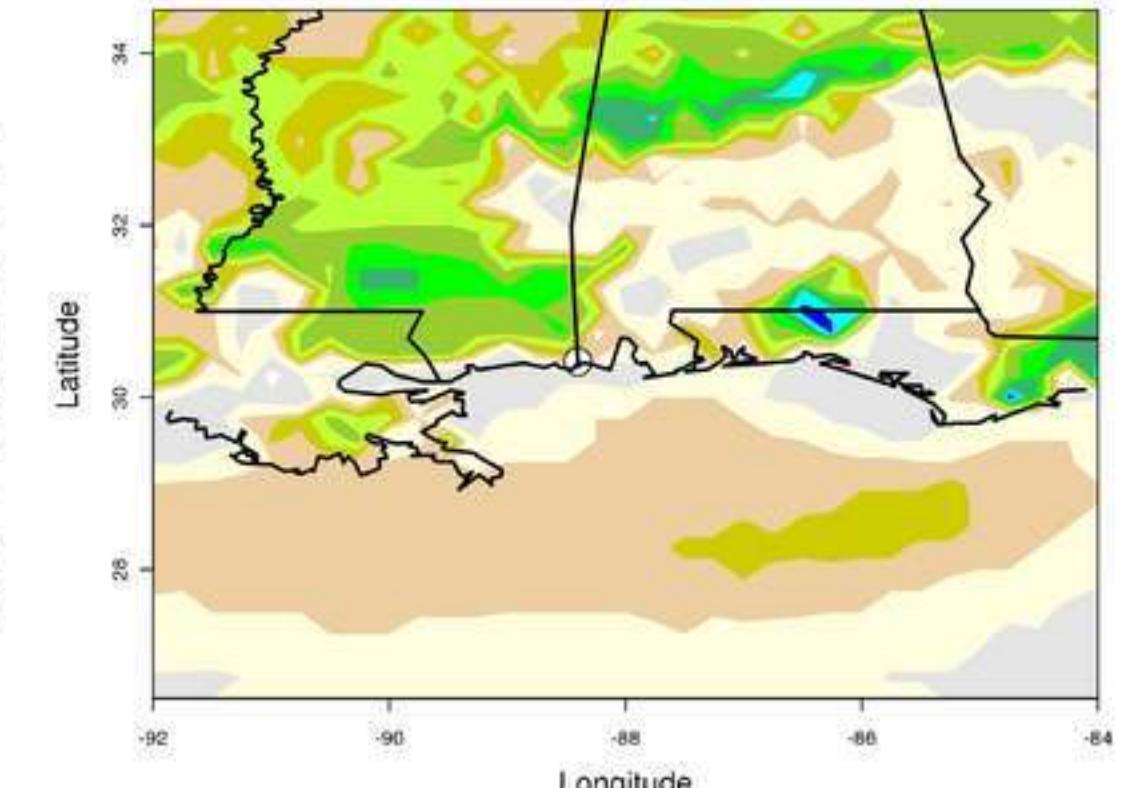
PRSS: Surface Pressure (hPa)



DSWF: Downward Short Wave Radiation Flux (W/m²)



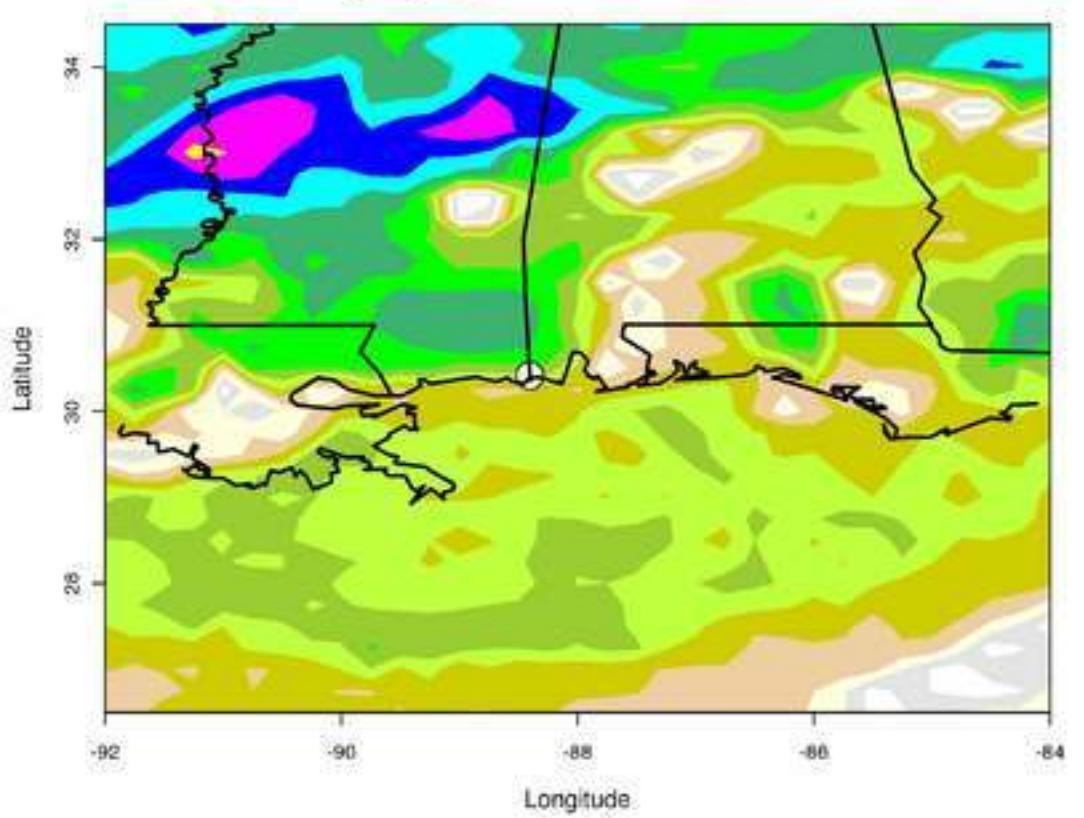
USTR: Friction Velocity (m/sec)



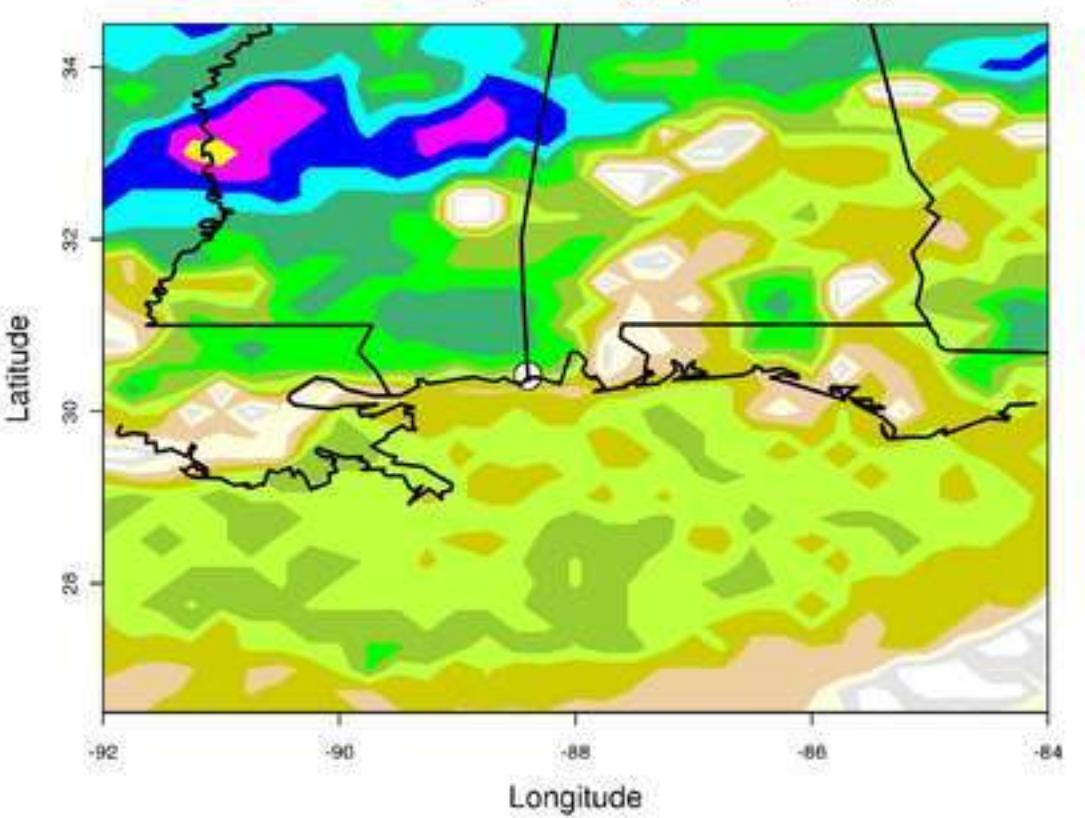
> 0.10
0.100
0.080
0.060
0.040
0.020
0.010
0.000

> 0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
0.30
0.20
0.10
< 0.10

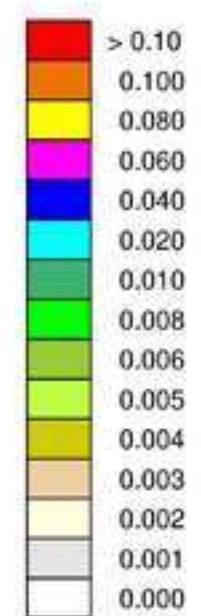
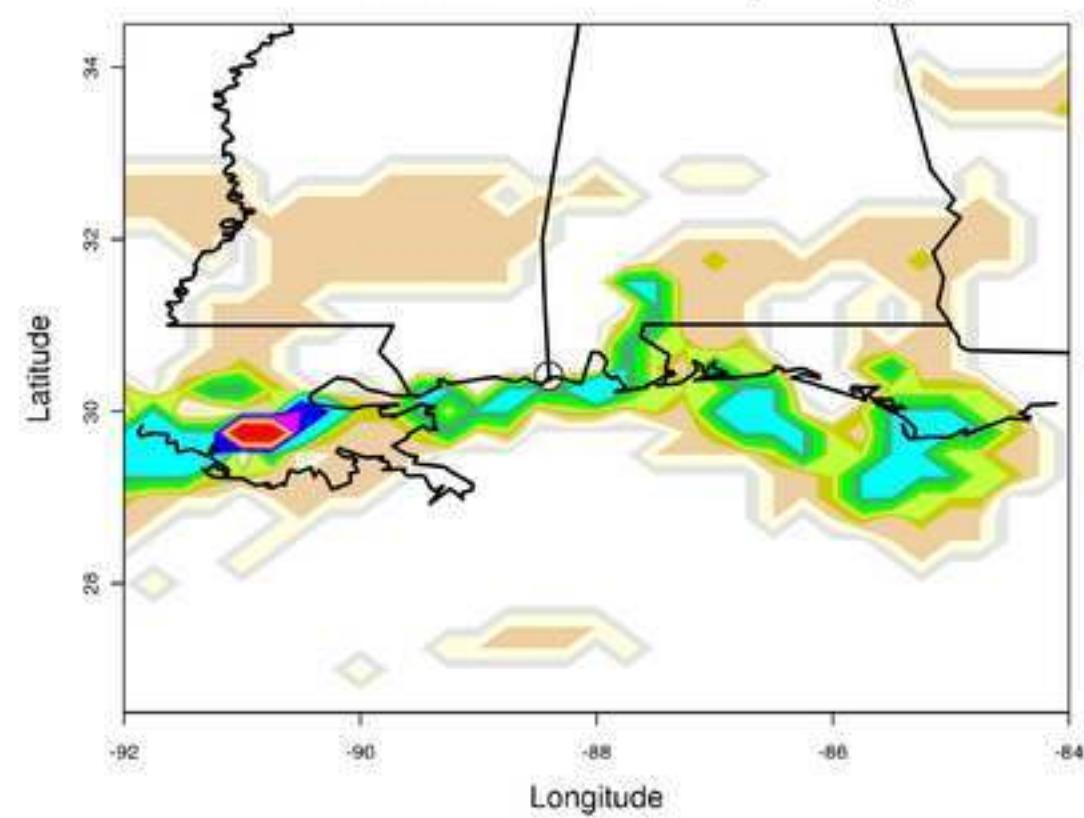
FORECAST for 2010_08_13, local hour = 12
Mixing Heights (m) Estimated with the HYSPLIT Model



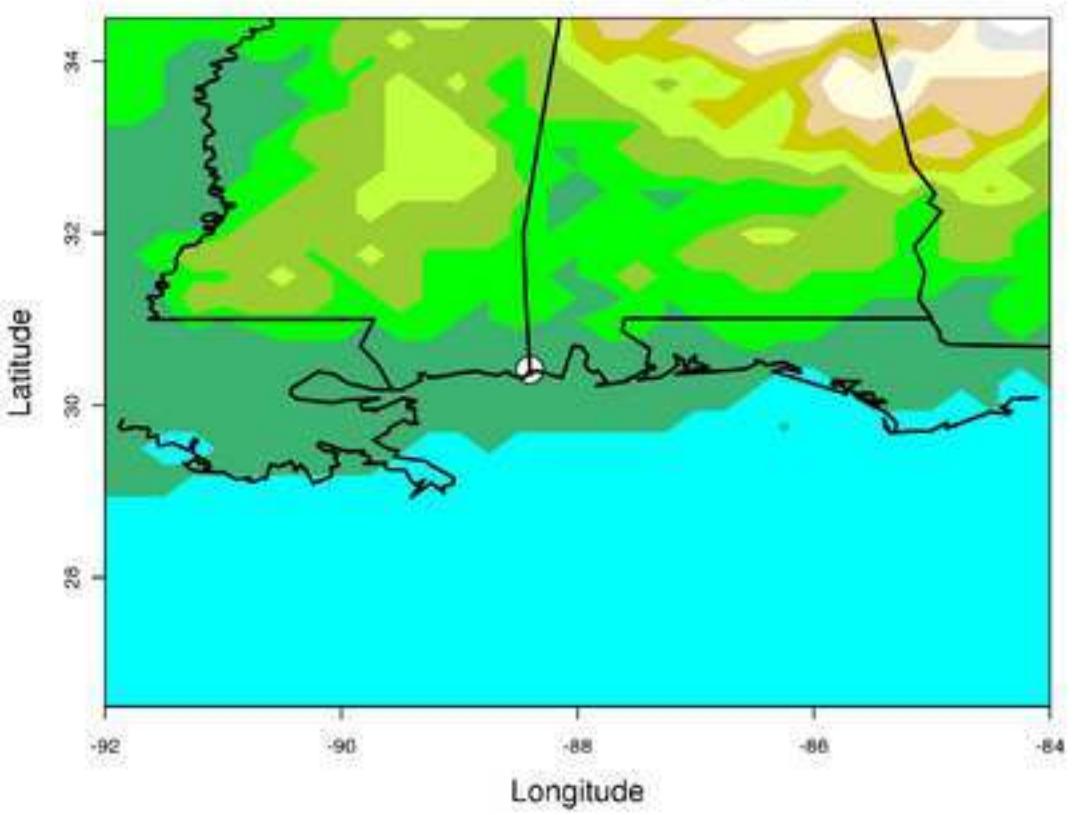
PBLH: Planetary Boundary Layer Height (m)



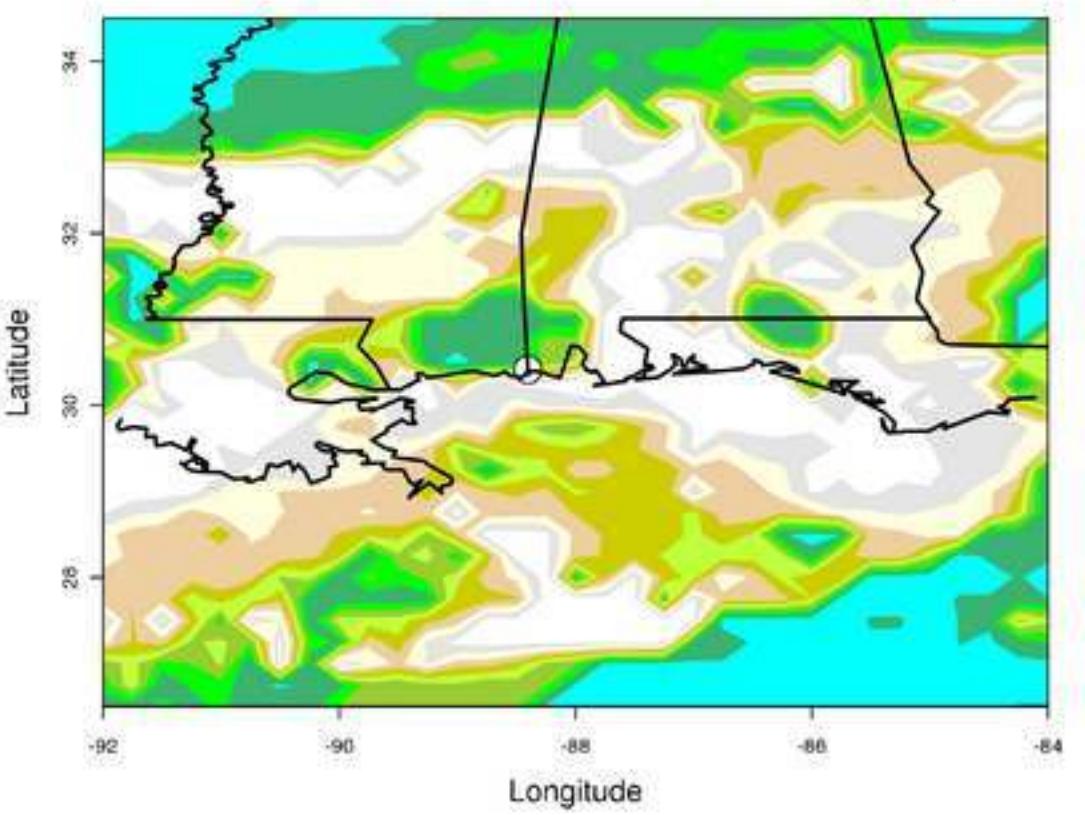
TPP3: 3-hour Accumulated Precipitation (m)



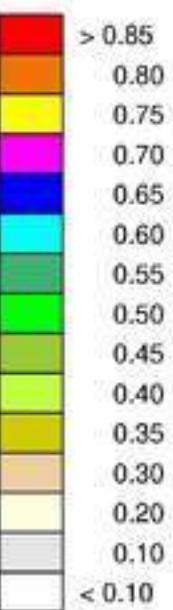
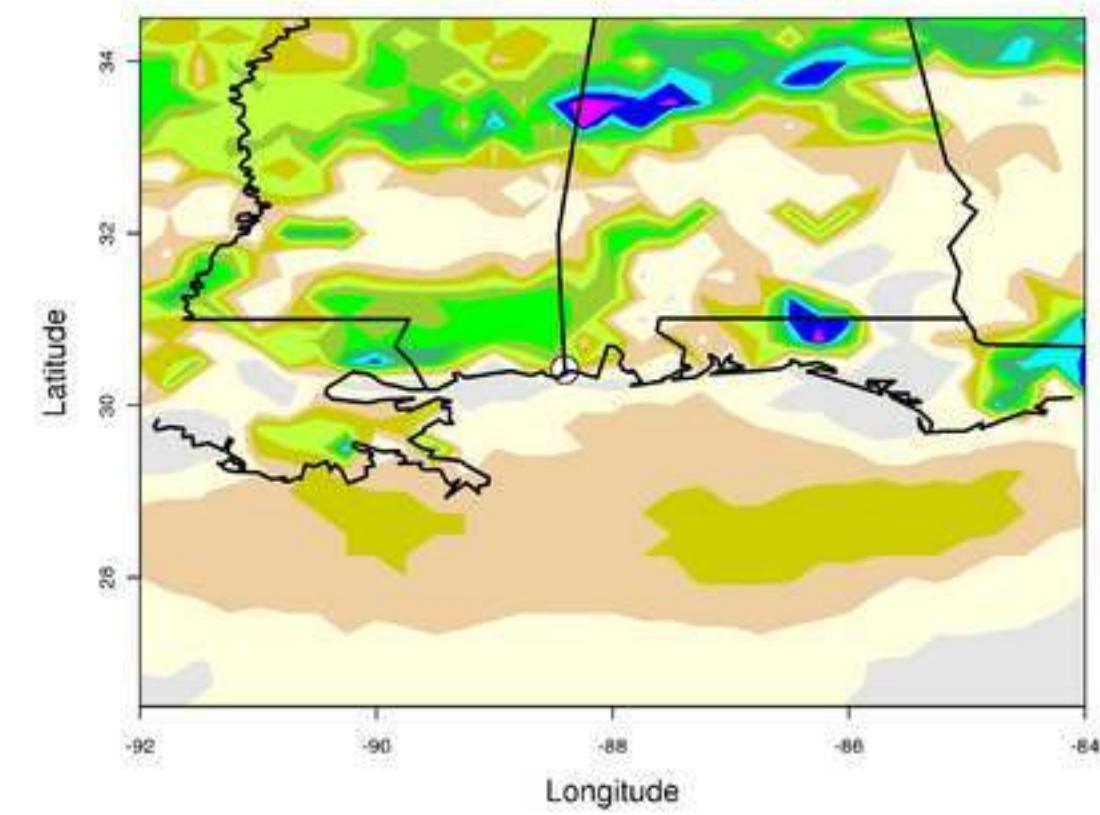
PRSS: Surface Pressure (hPa)



DSWF: Downward Short Wave Radiation Flux (W/m²)

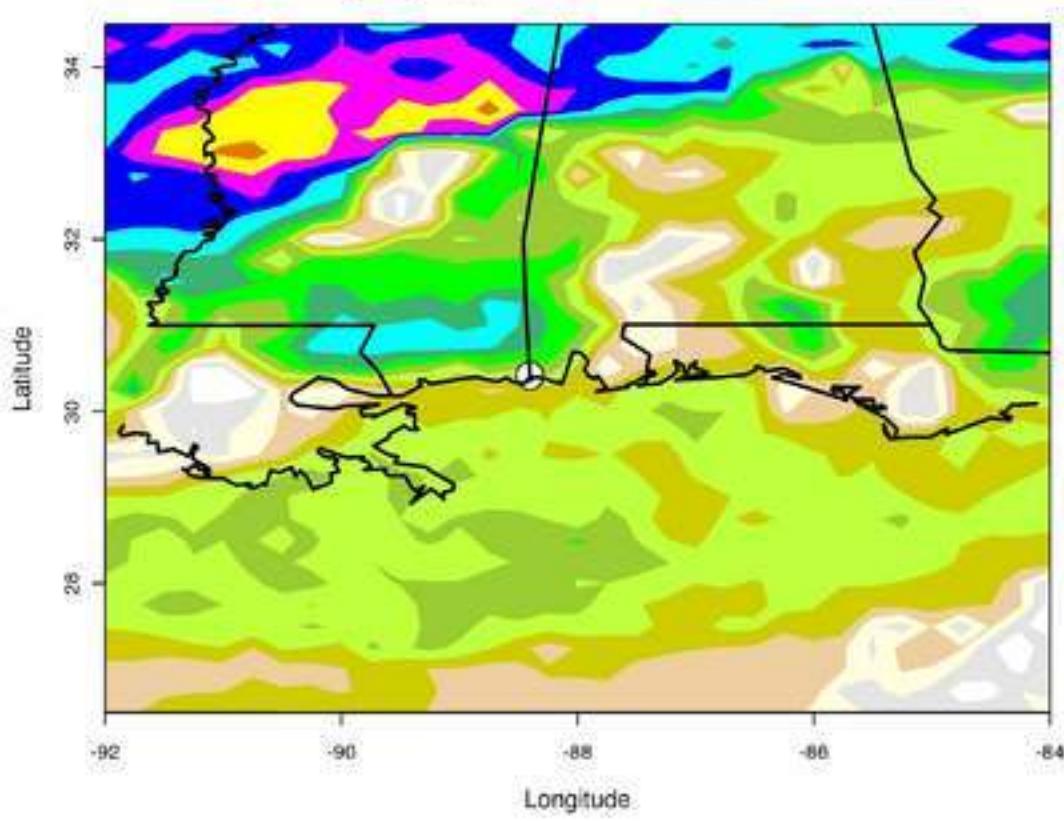


USTR: Friction Velocity (m/sec)

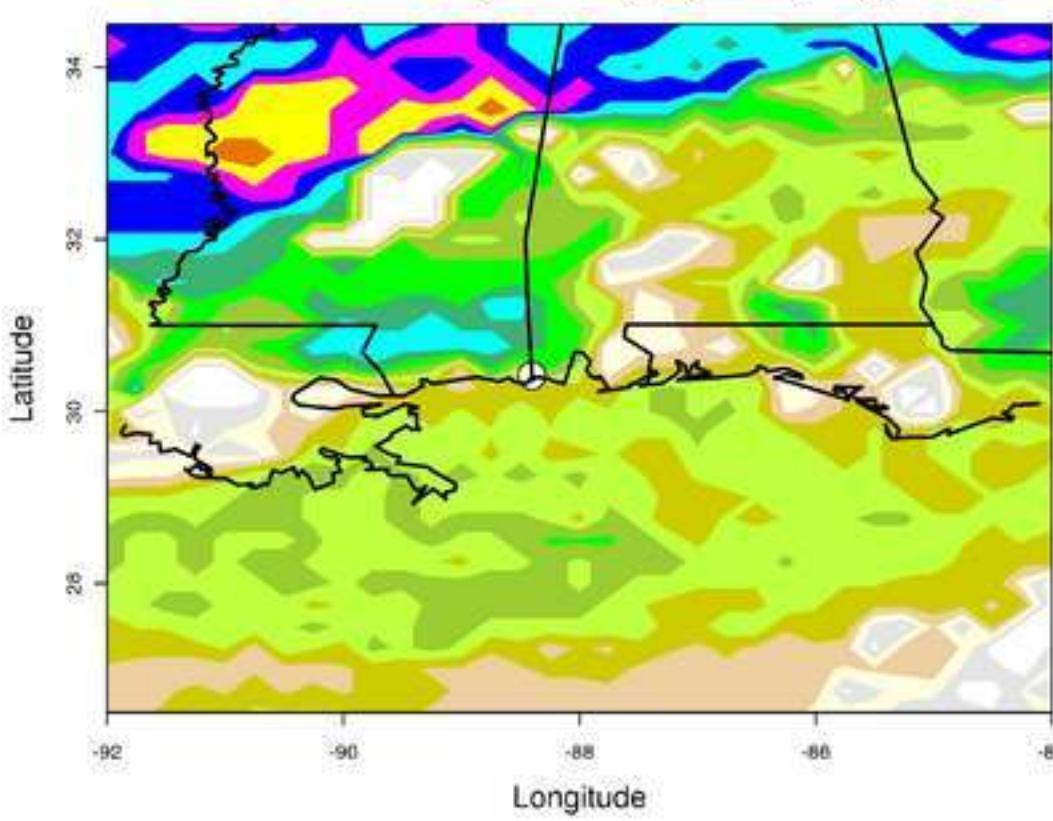


FORECAST for 2010_08_13, local hour = 13

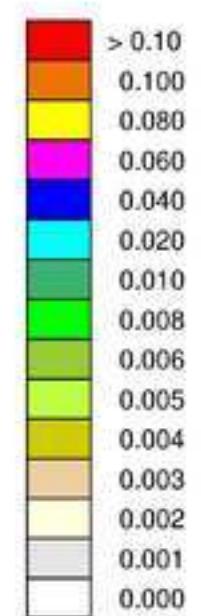
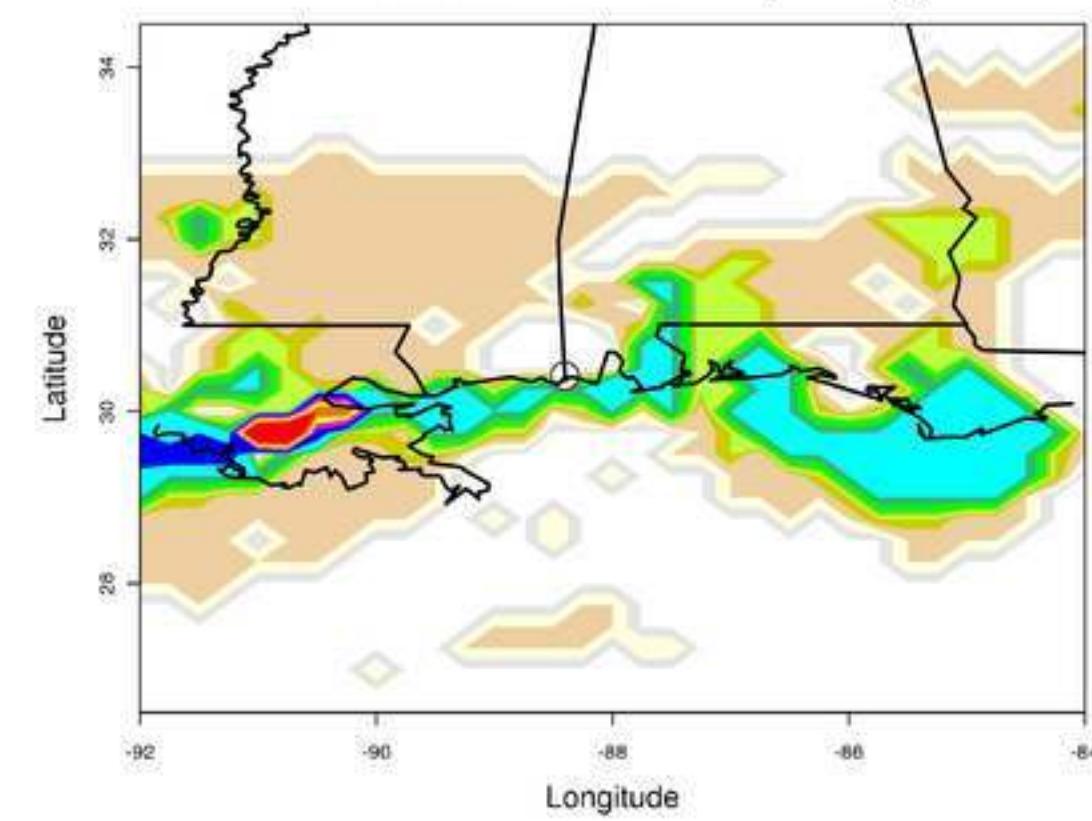
Mixing Heights (m) Estimated with the HYSPLIT Model



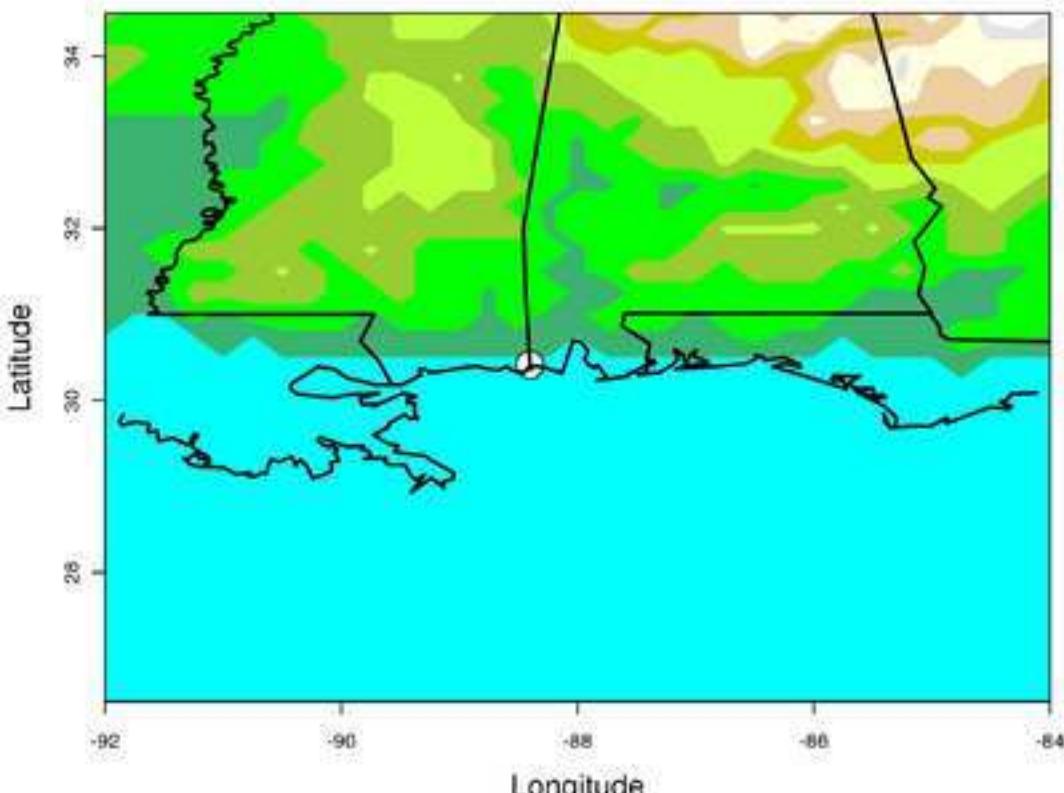
PBLH: Planetary Boundary Layer Height (m)



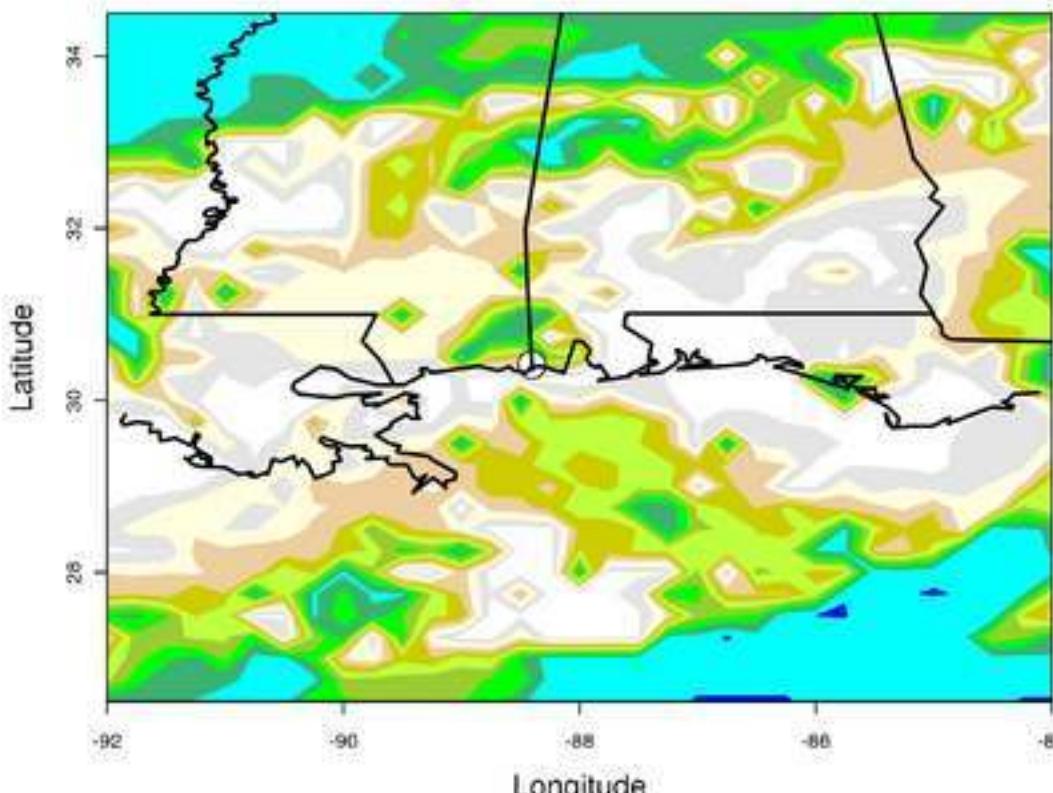
TPP3: 3-hour Accumulated Precipitation (m)



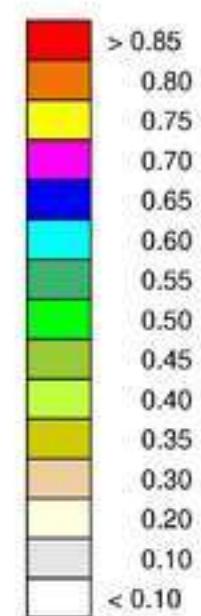
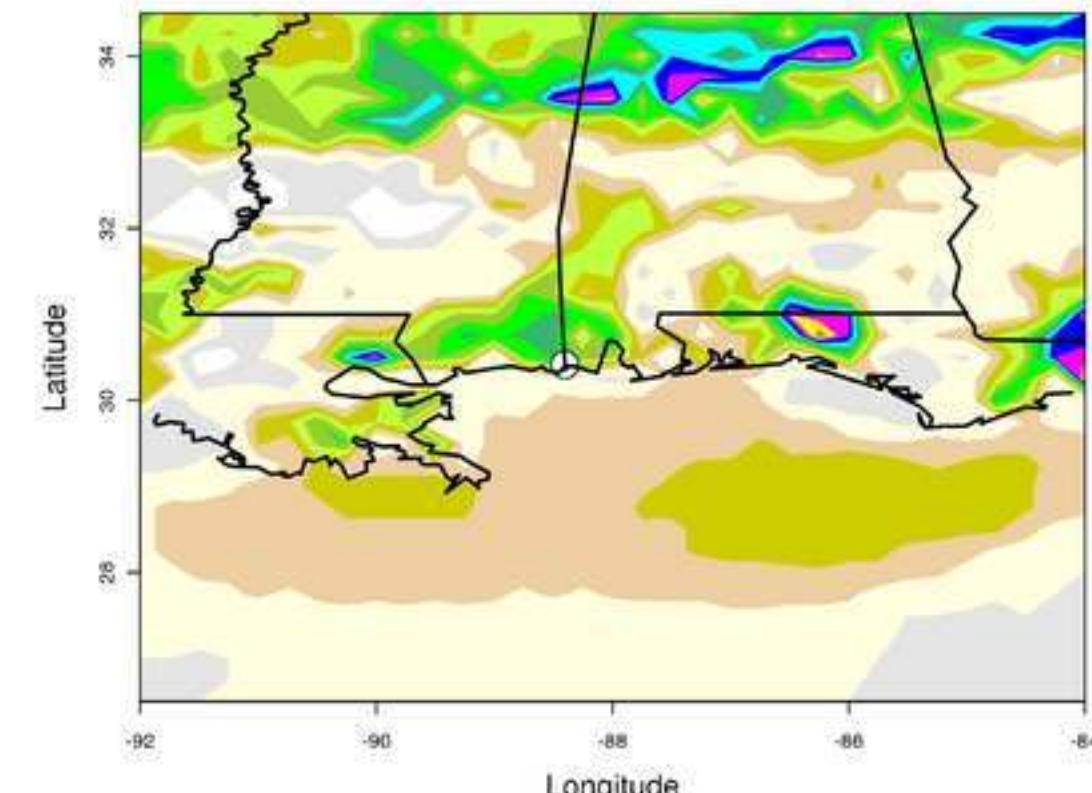
PRSS: Surface Pressure (hPa)



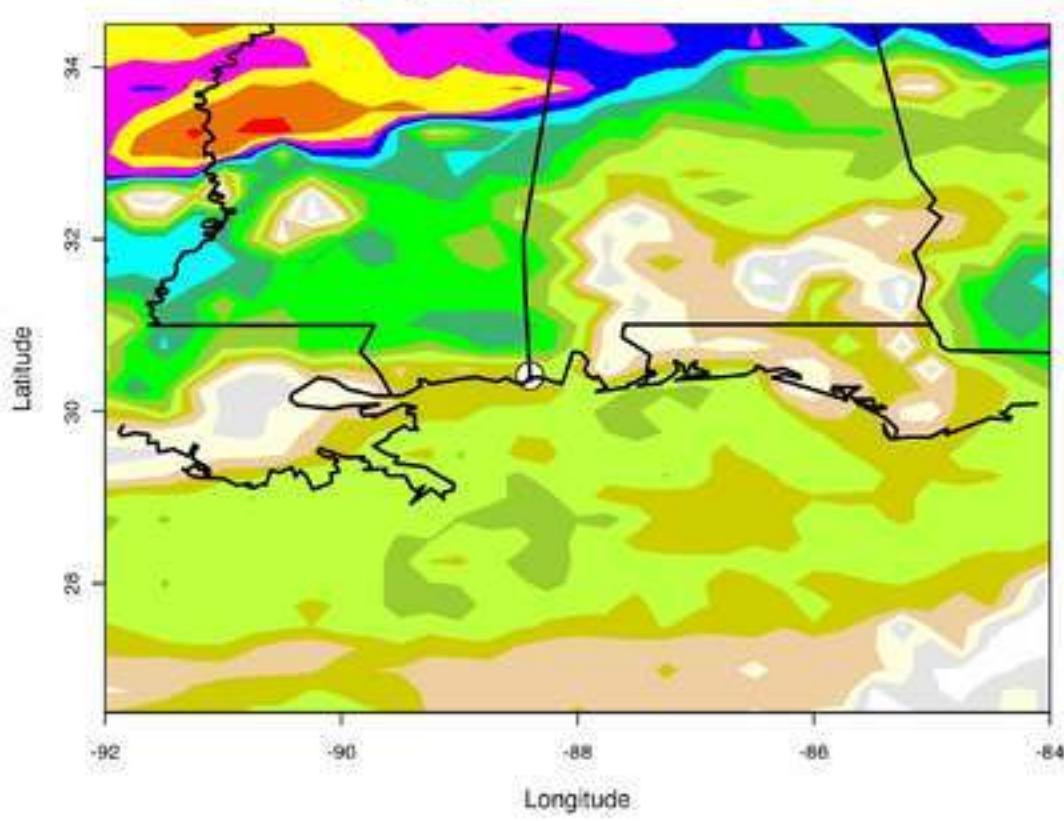
DSWF: Downward Short Wave Radiation Flux (W/m²)



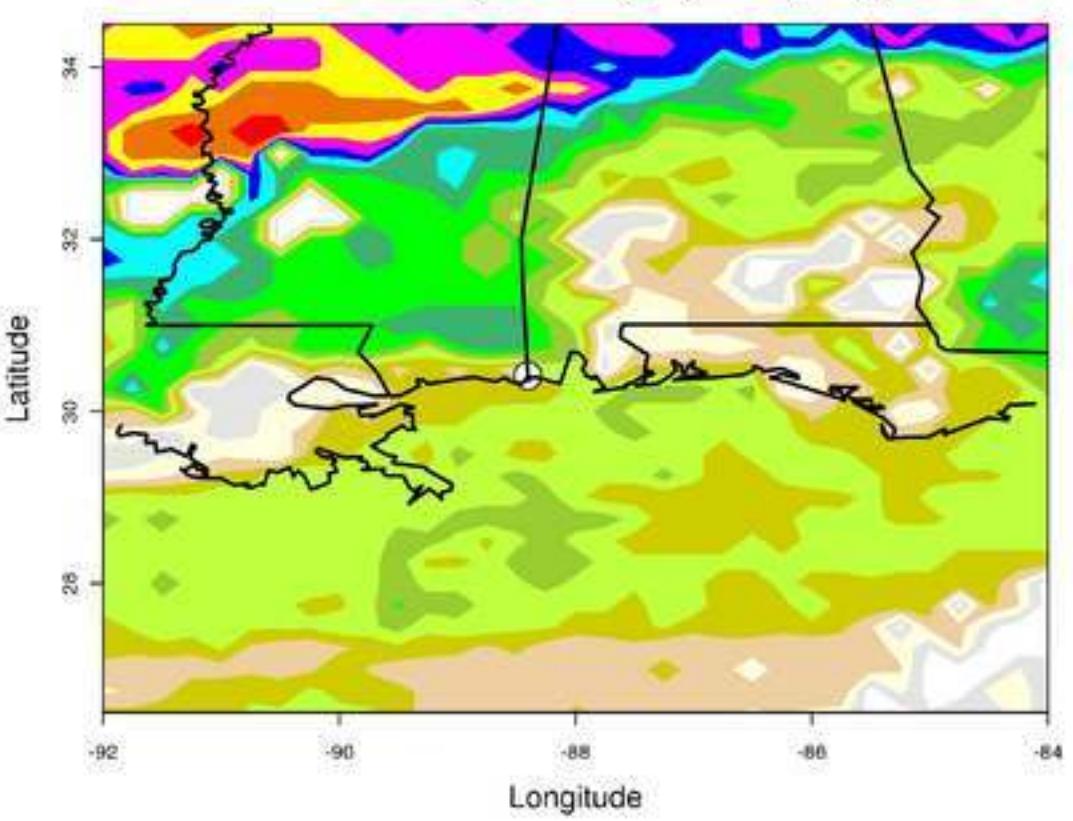
USTR: Friction Velocity (m/sec)



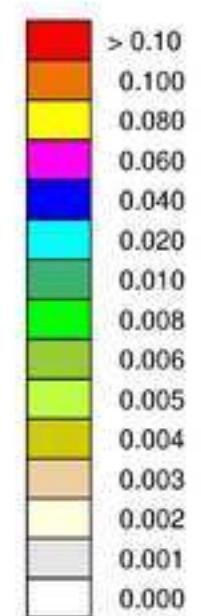
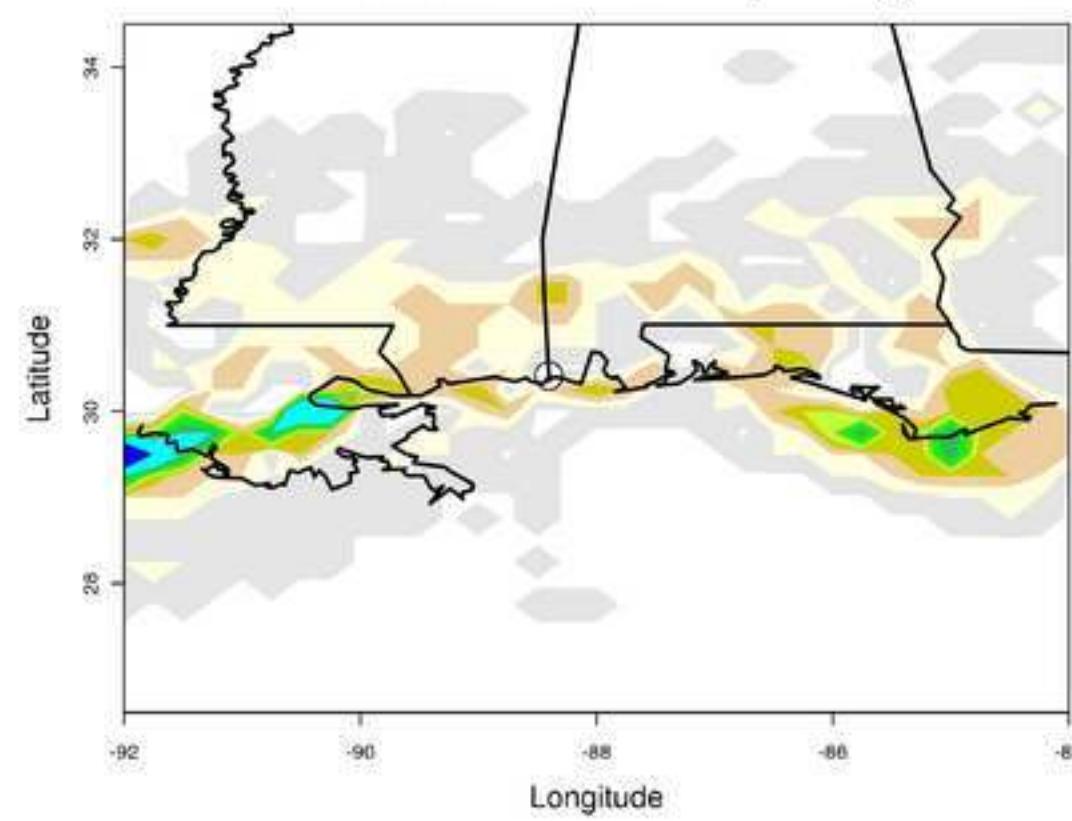
FORECAST for 2010_08_13, local hour = 14
Mixing Heights (m) Estimated with the HYSPLIT Model



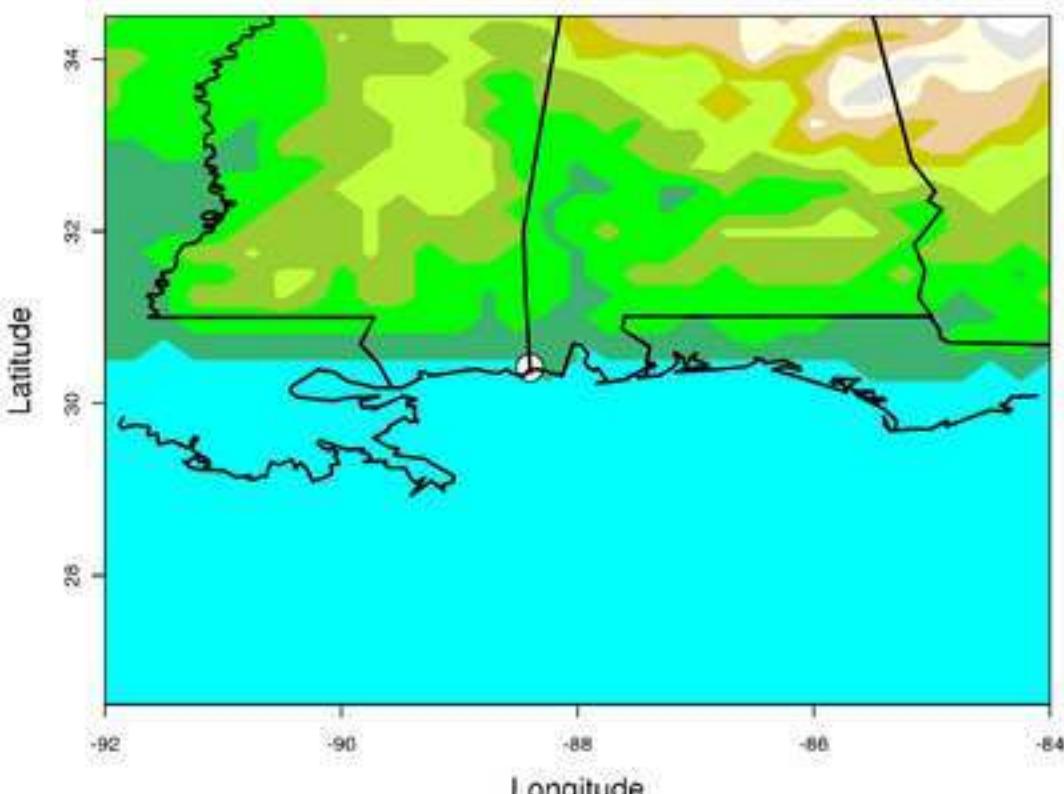
PBLH: Planetary Boundary Layer Height (m)



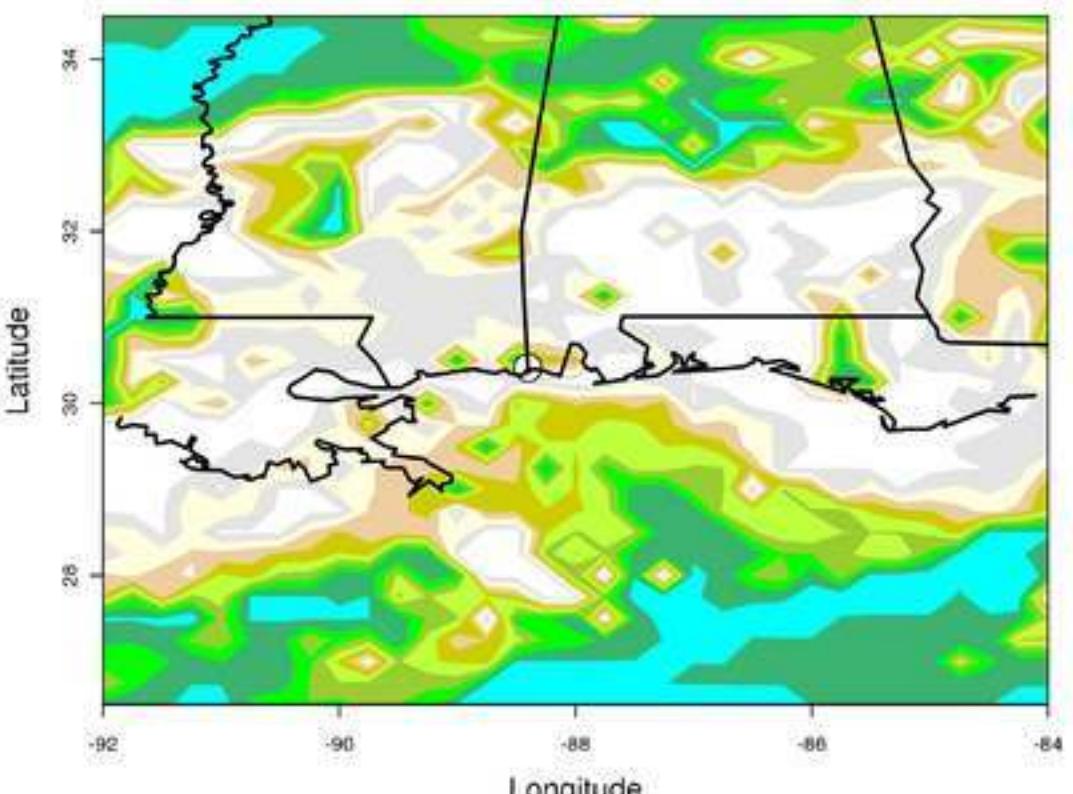
TPP3: 3-hour Accumulated Precipitation (m)



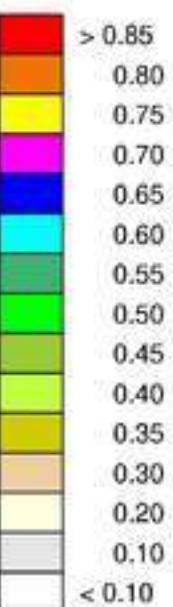
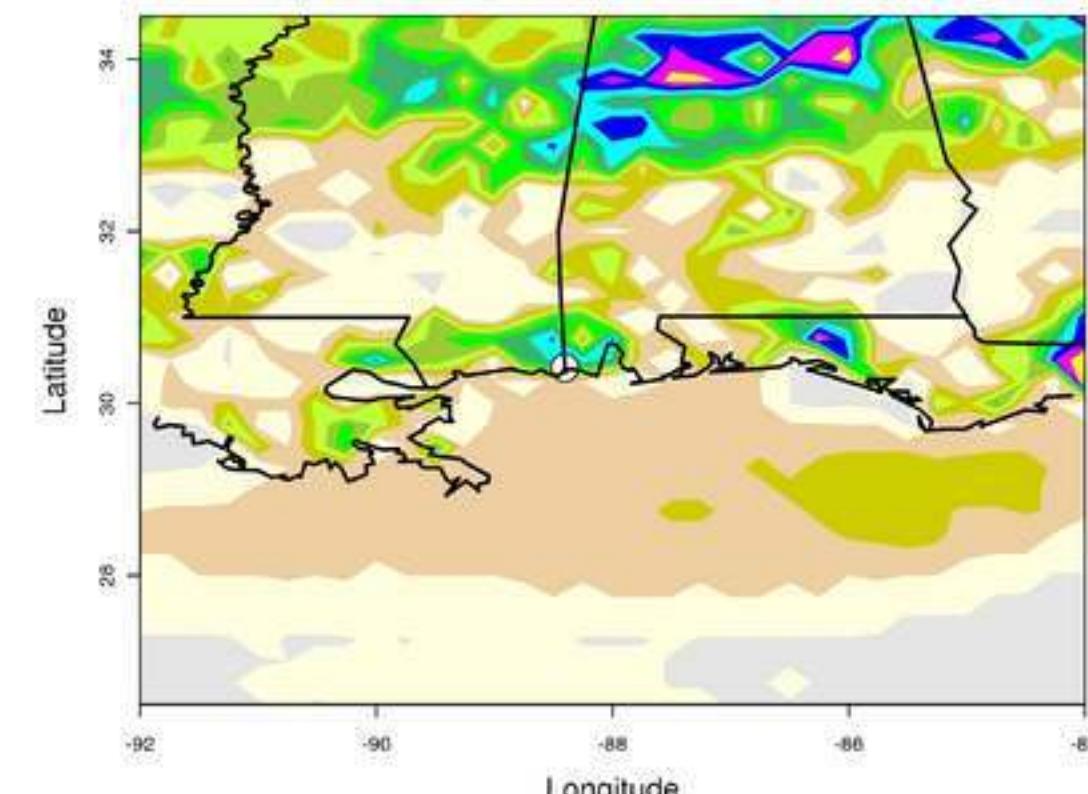
PRSS: Surface Pressure (hPa)



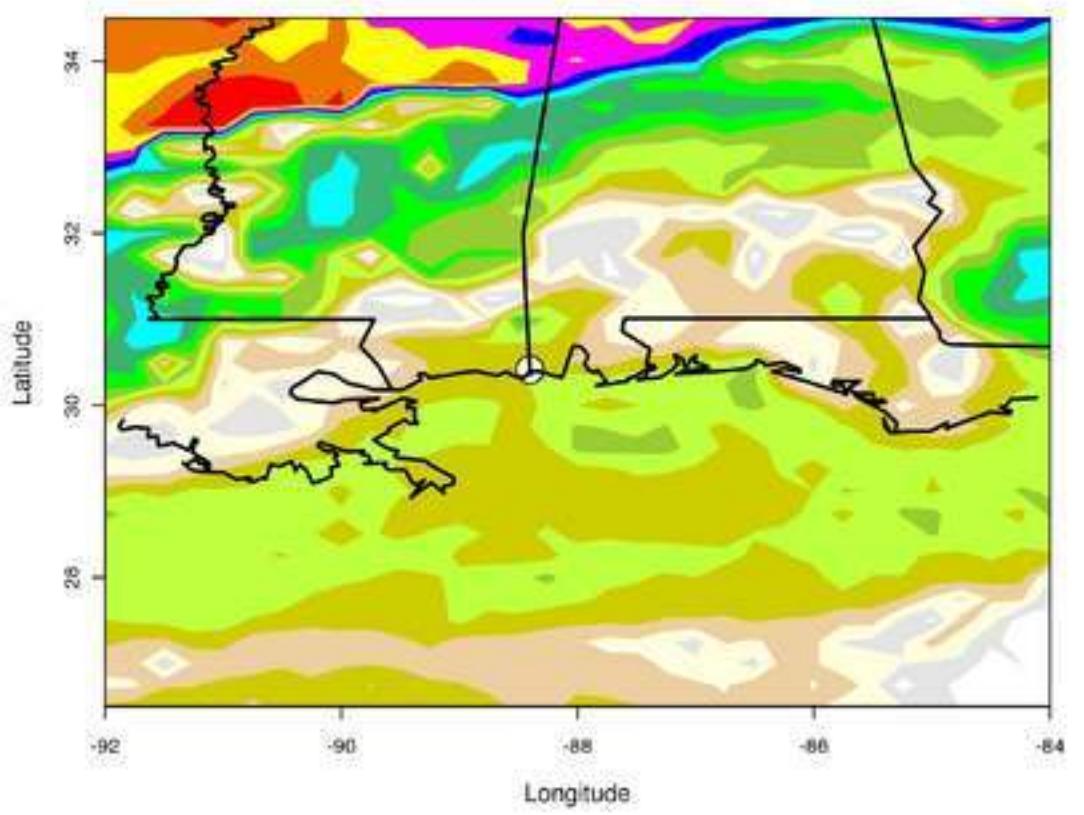
DSWF: Downward Short Wave Radiation Flux (W/m²)



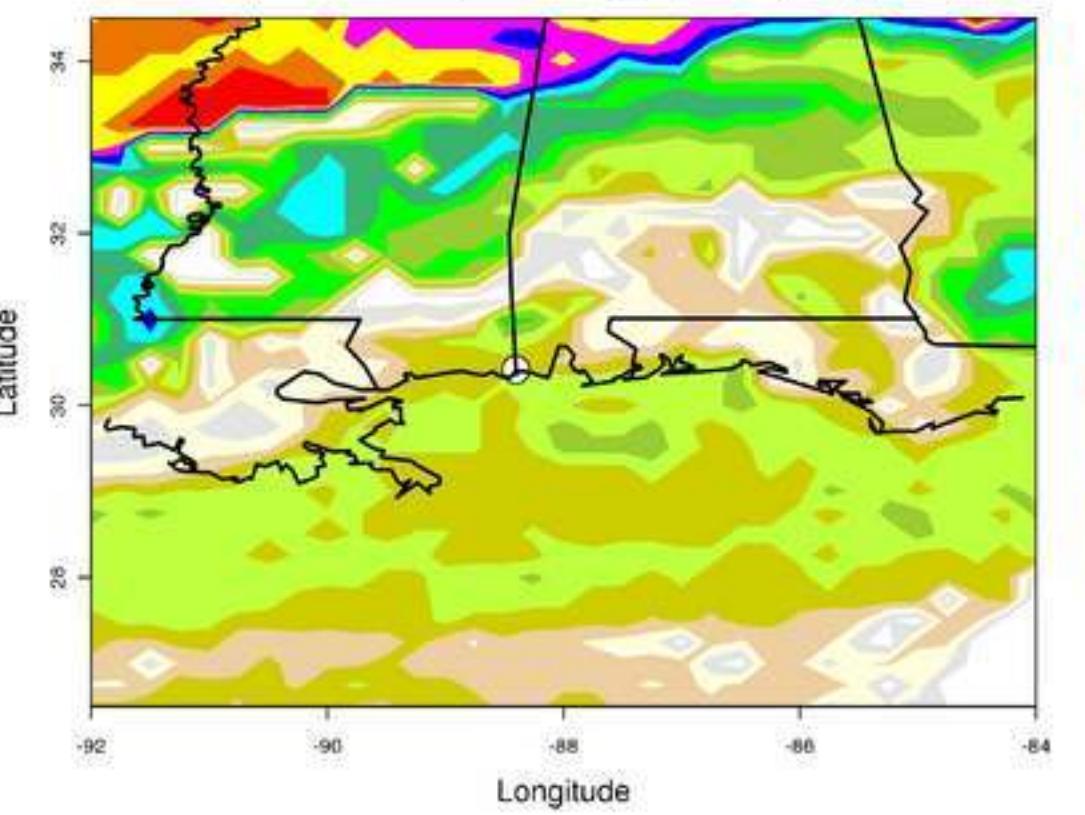
USTR: Friction Velocity (m/sec)



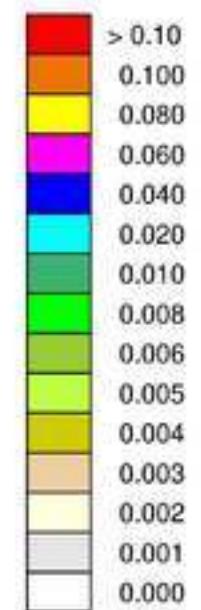
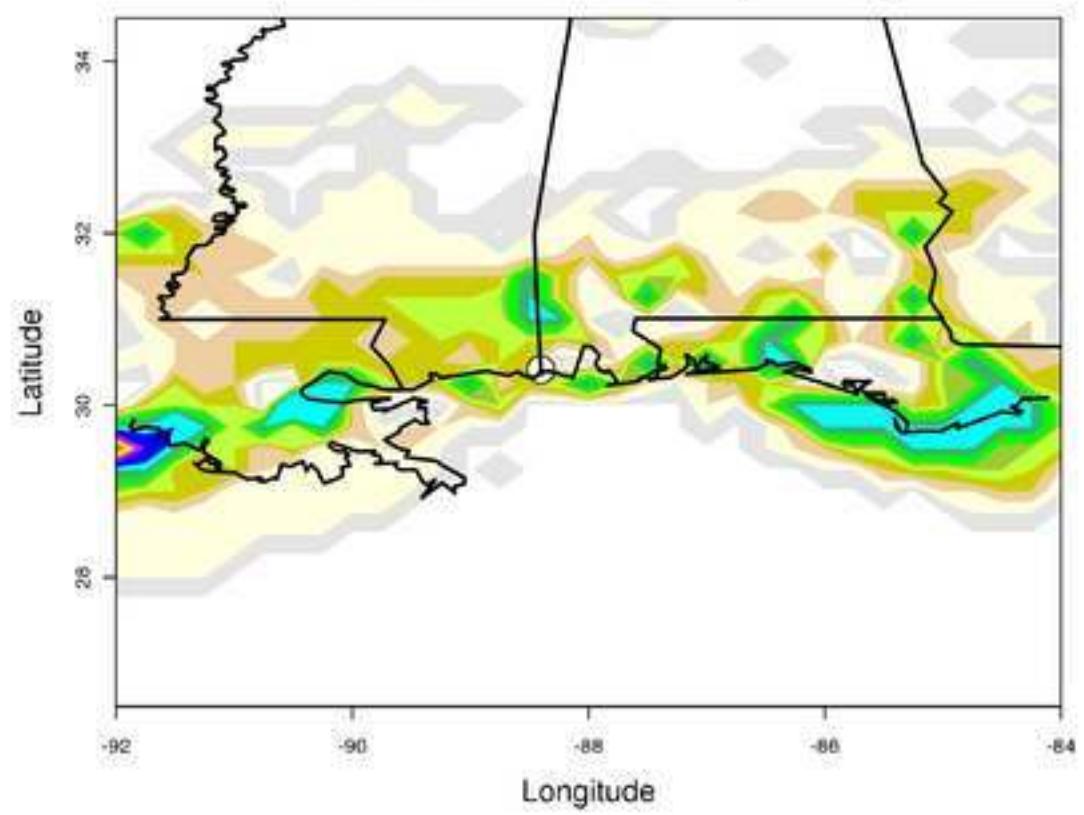
FORECAST for 2010_08_13, local hour = 15
Mixing Heights (m) Estimated with the HYSPLIT Model



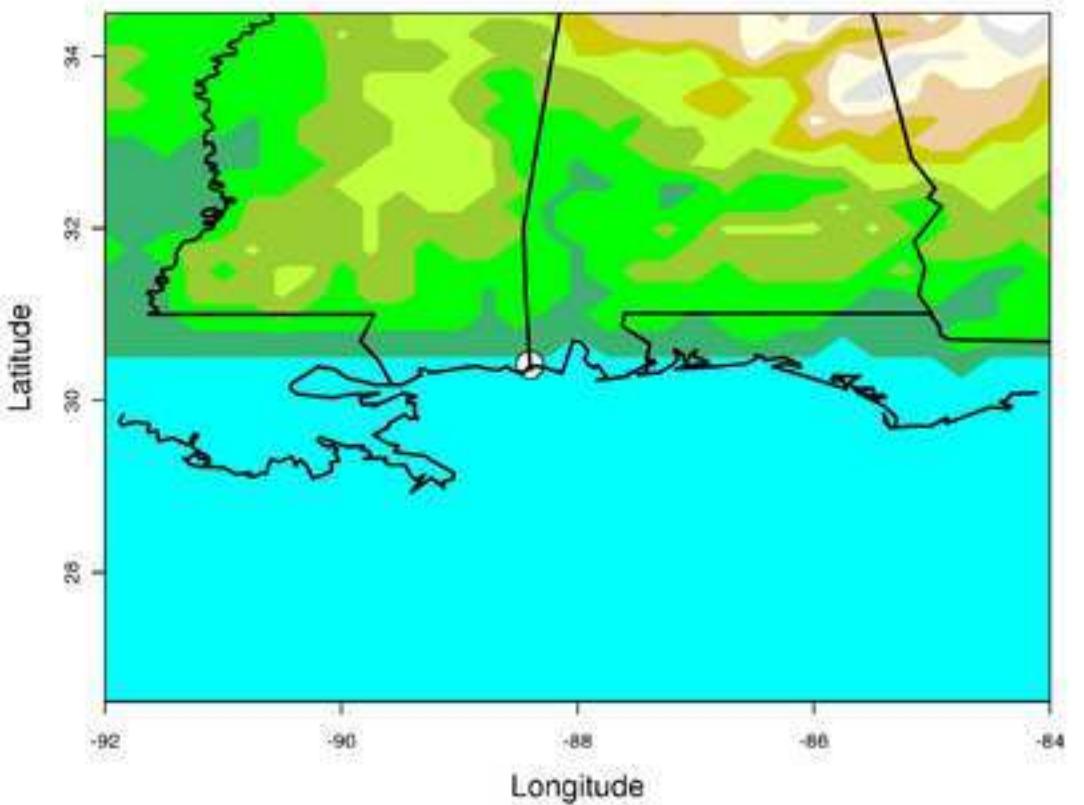
PBLH: Planetary Boundary Layer Height (m)



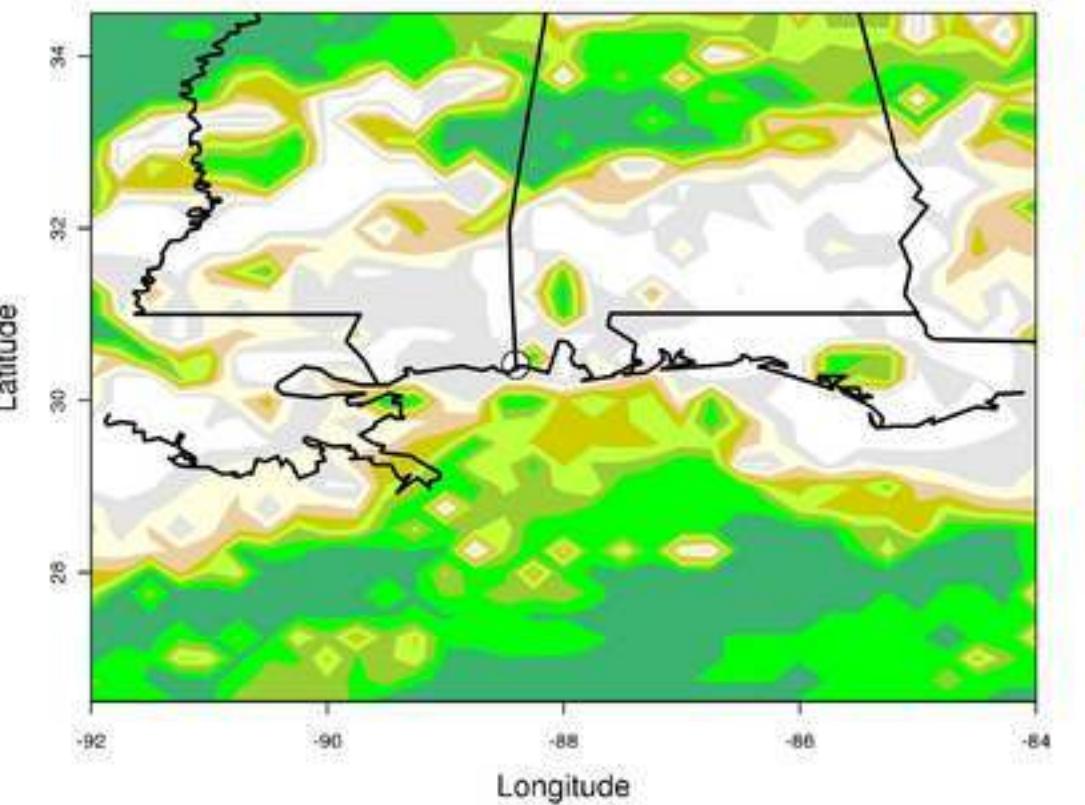
TPP3: 3-hour Accumulated Precipitation (m)



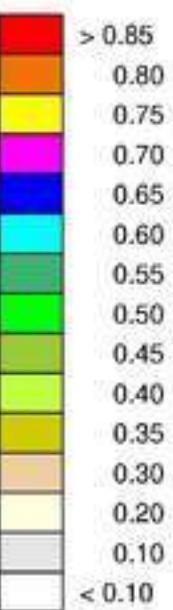
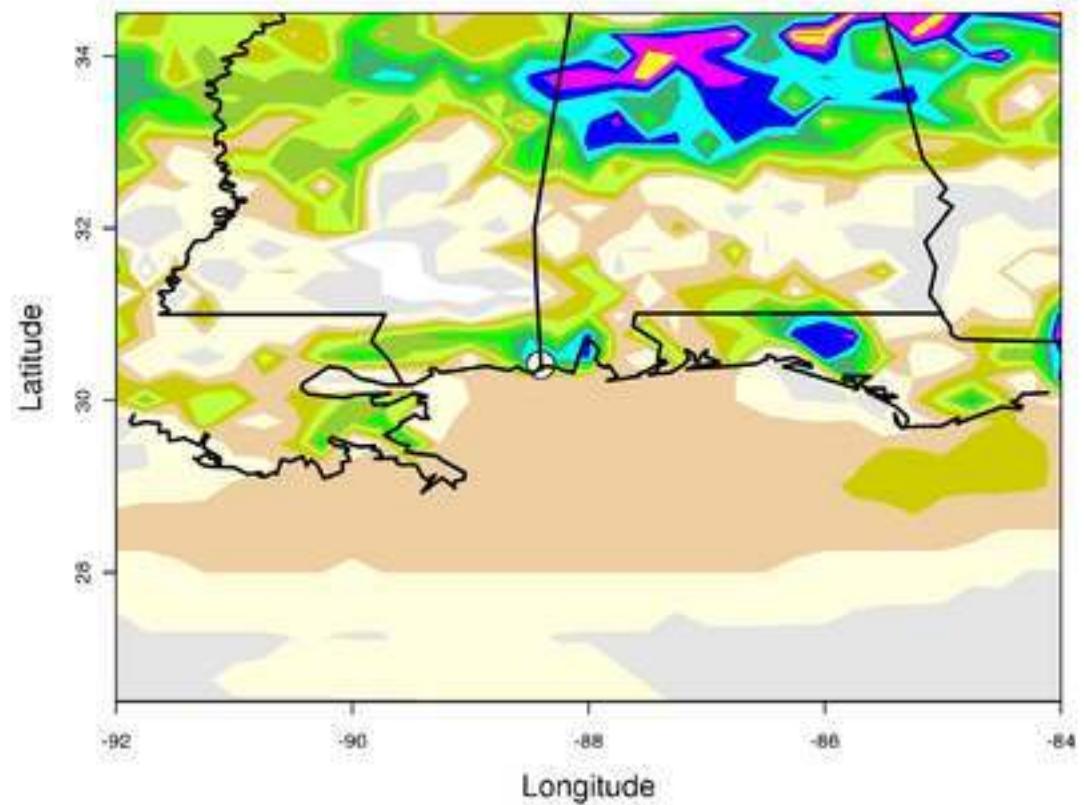
PRSS: Surface Pressure (hPa)



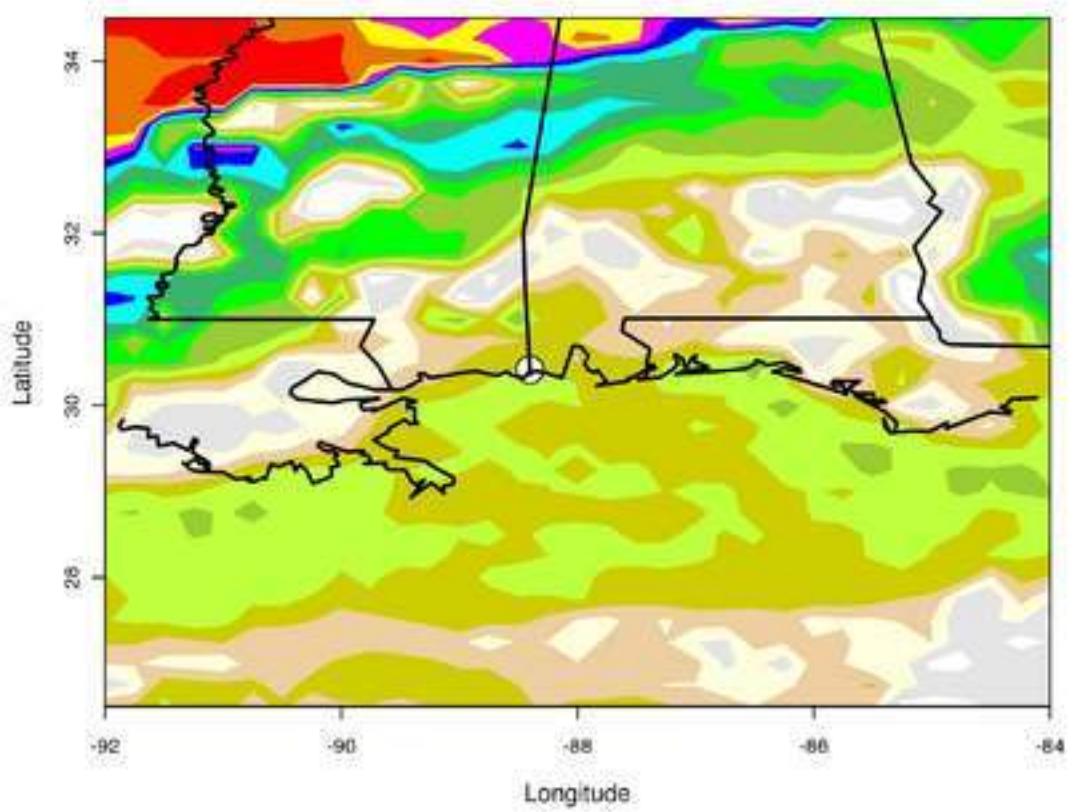
DSWF: Downward Short Wave Radiation Flux (W/m²)



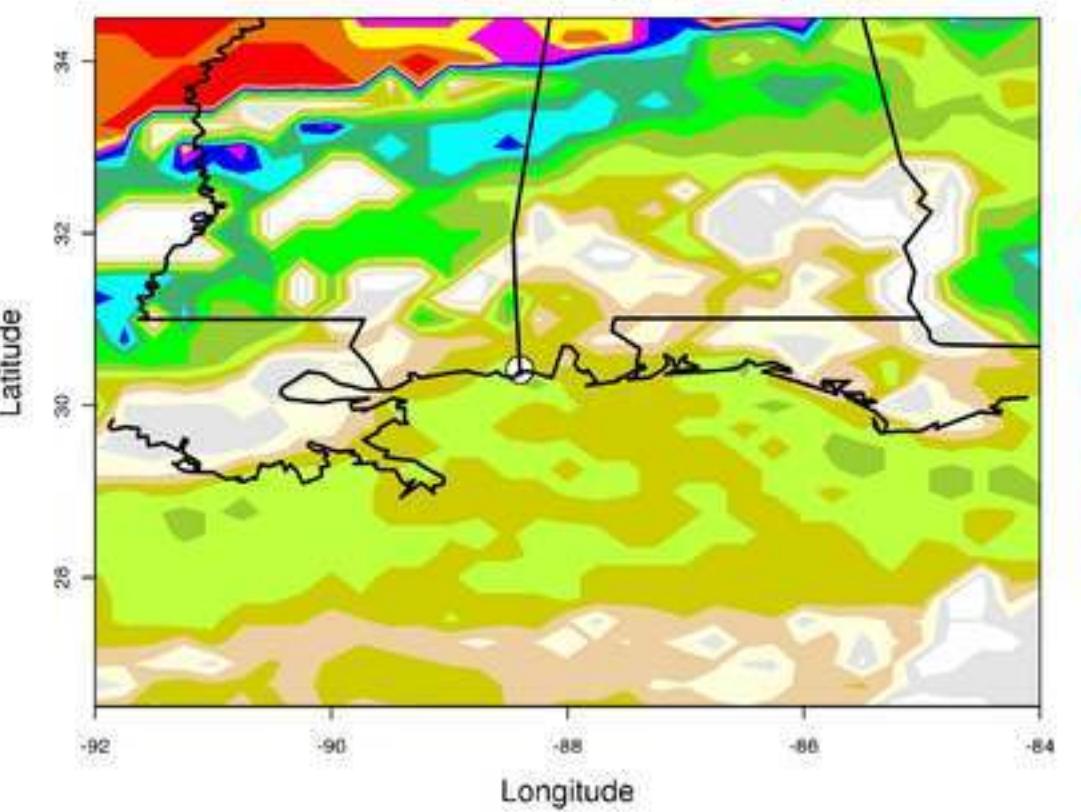
USTR: Friction Velocity (m/sec)



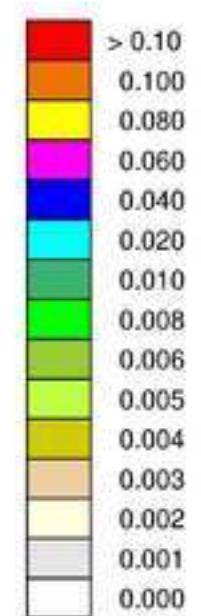
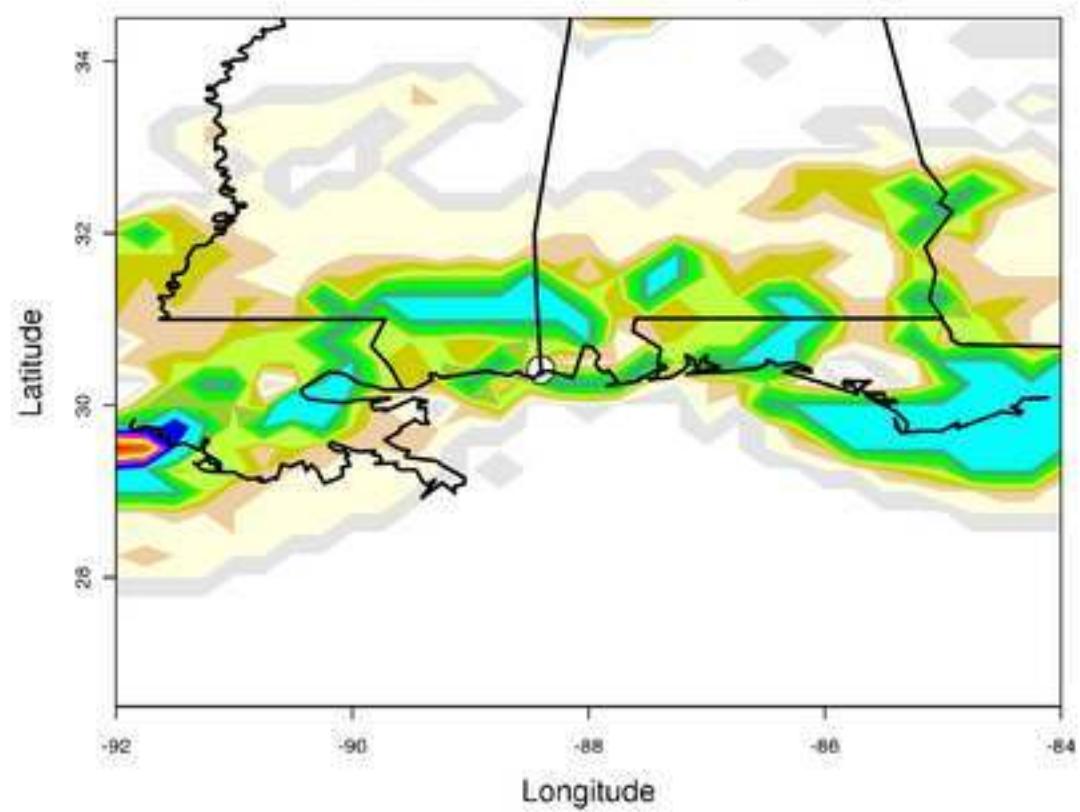
FORECAST for 2010_08_13, local hour = 16
Mixing Heights (m) Estimated with the HYSPLIT Model



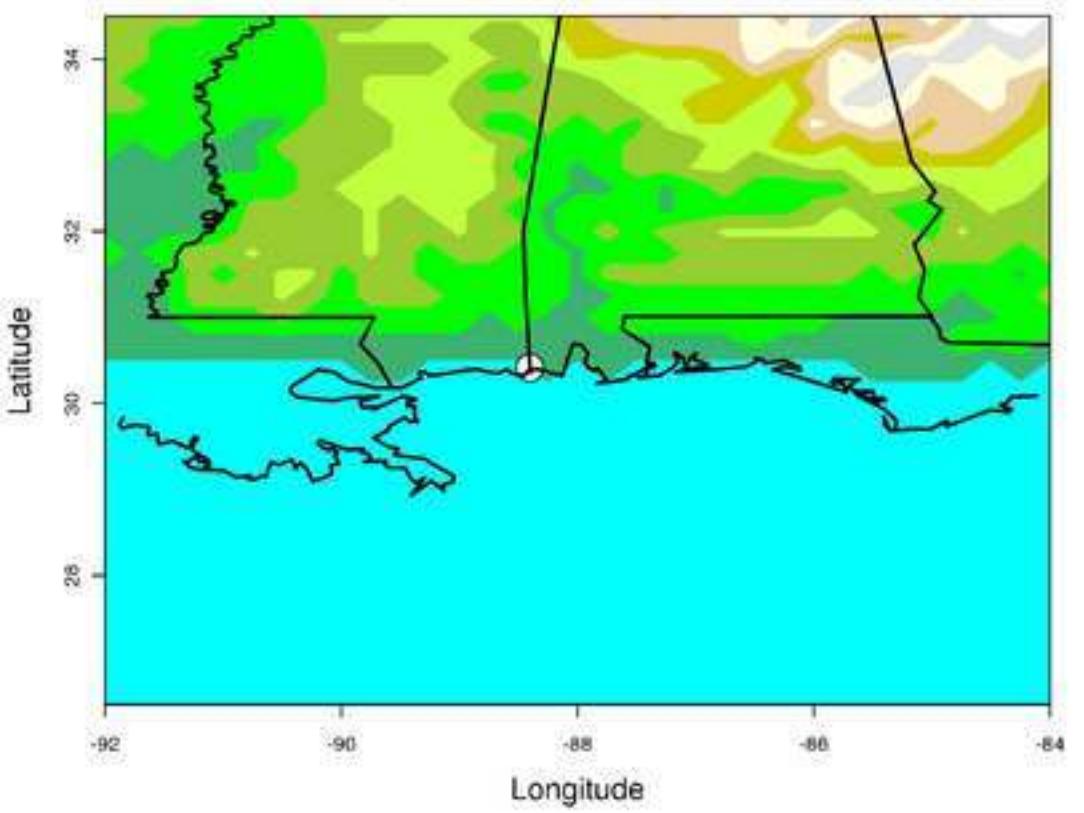
PBLH: Planetary Boundary Layer Height (m)



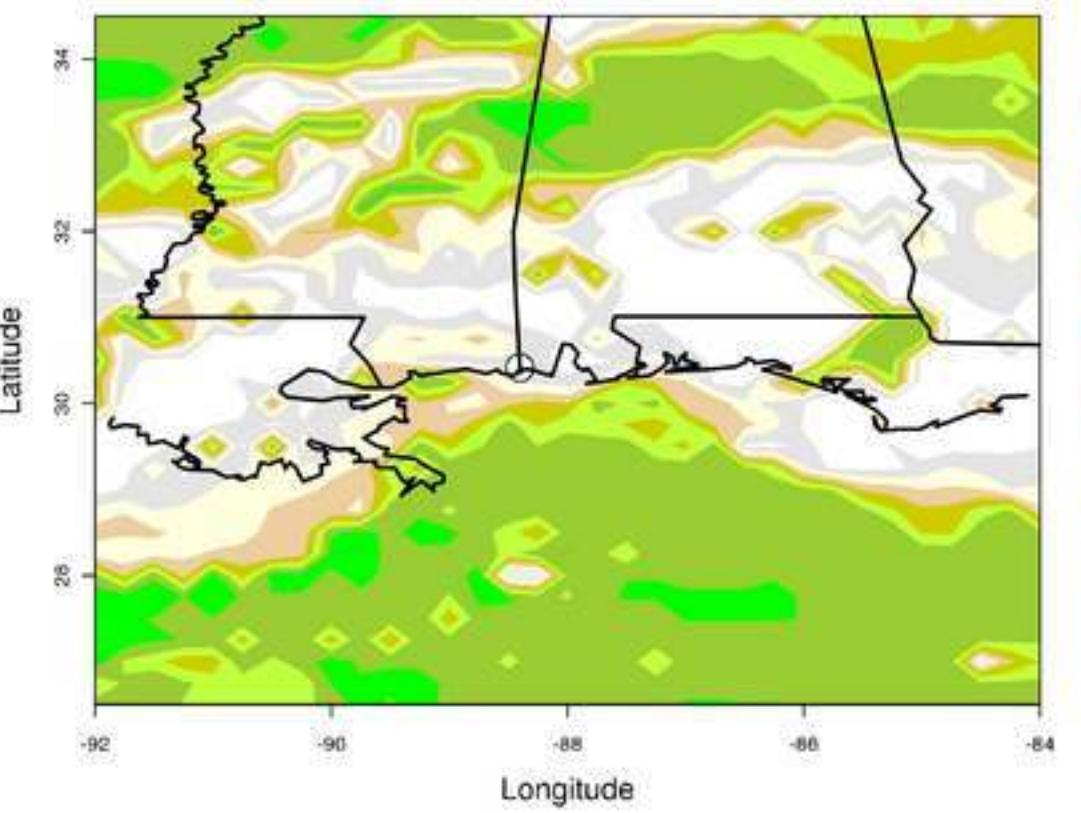
TPP3: 3-hour Accumulated Precipitation (m)



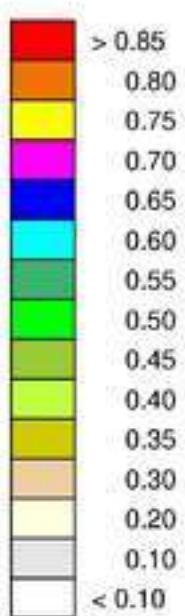
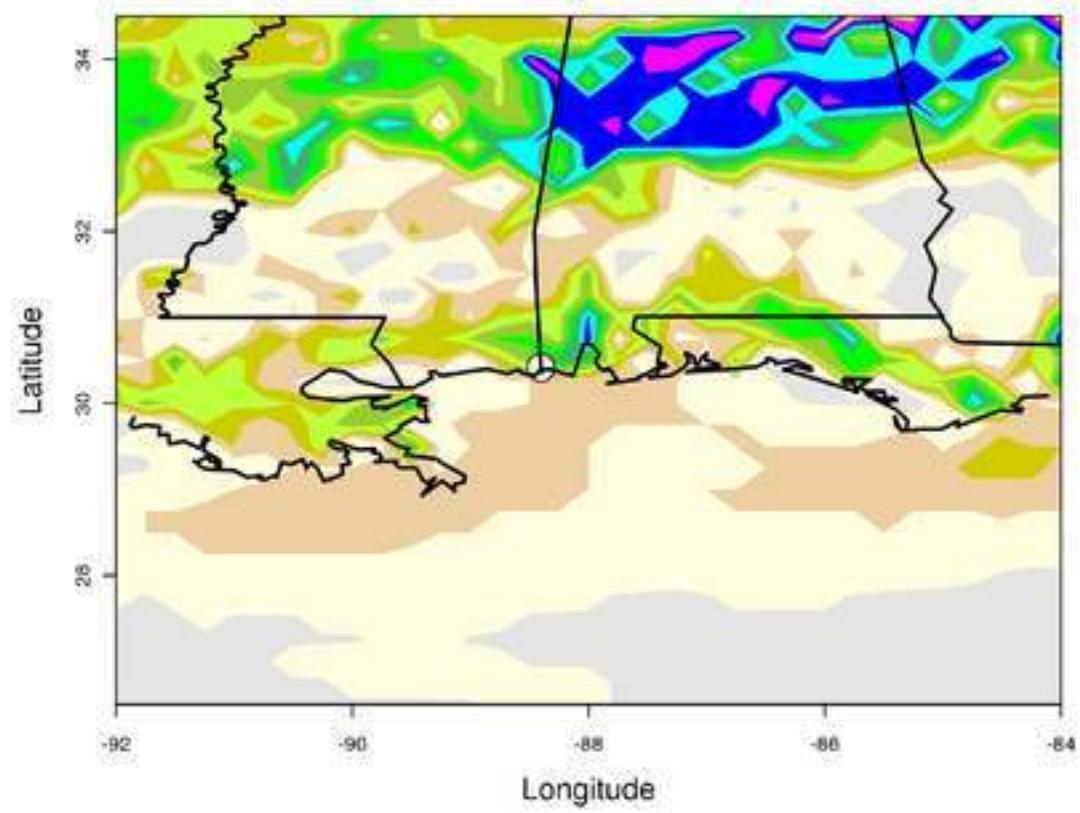
PRSS: Surface Pressure (hPa)



DSWF: Downward Short Wave Radiation Flux (W/m²)

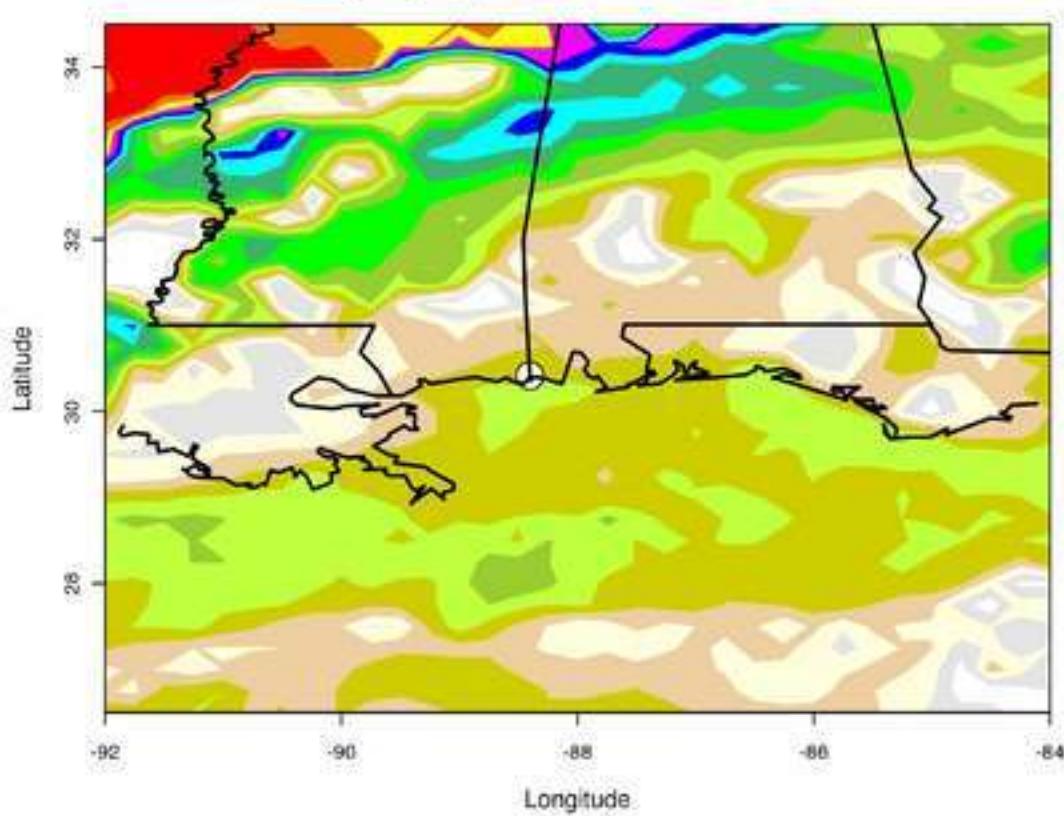


USTR: Friction Velocity (m/sec)

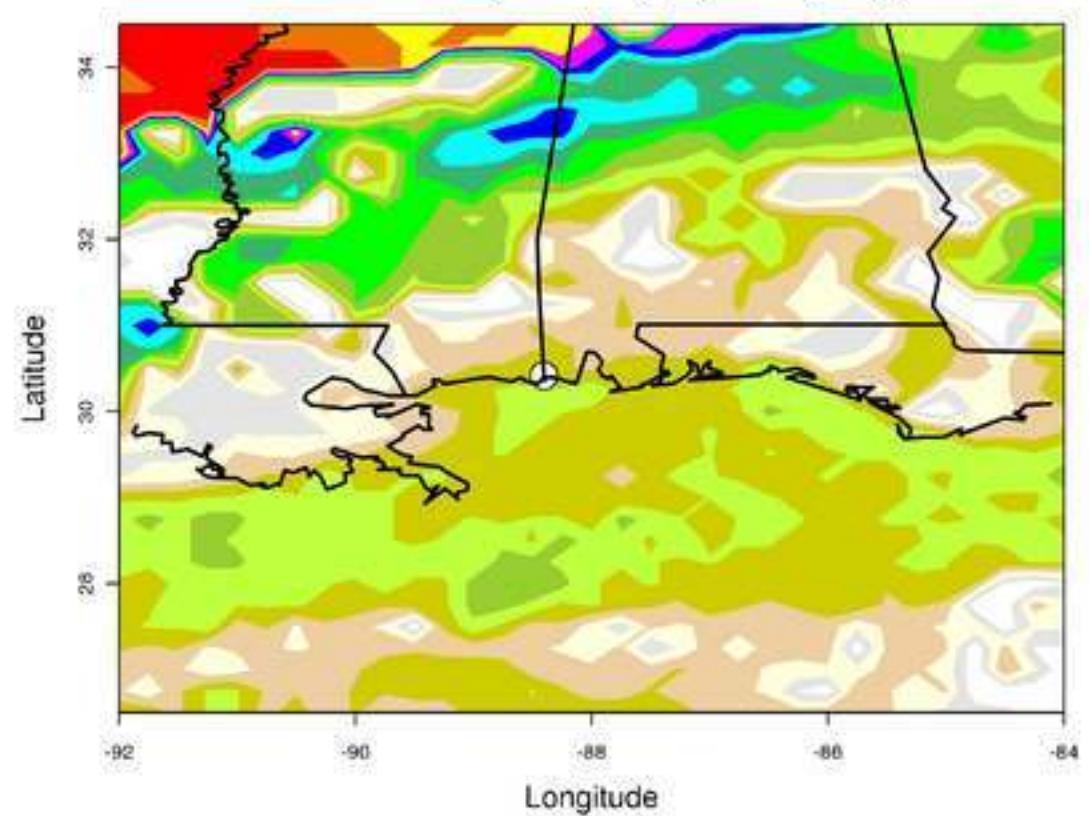


FORECAST for 2010_08_13, local hour = 17

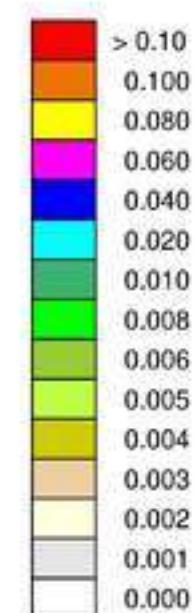
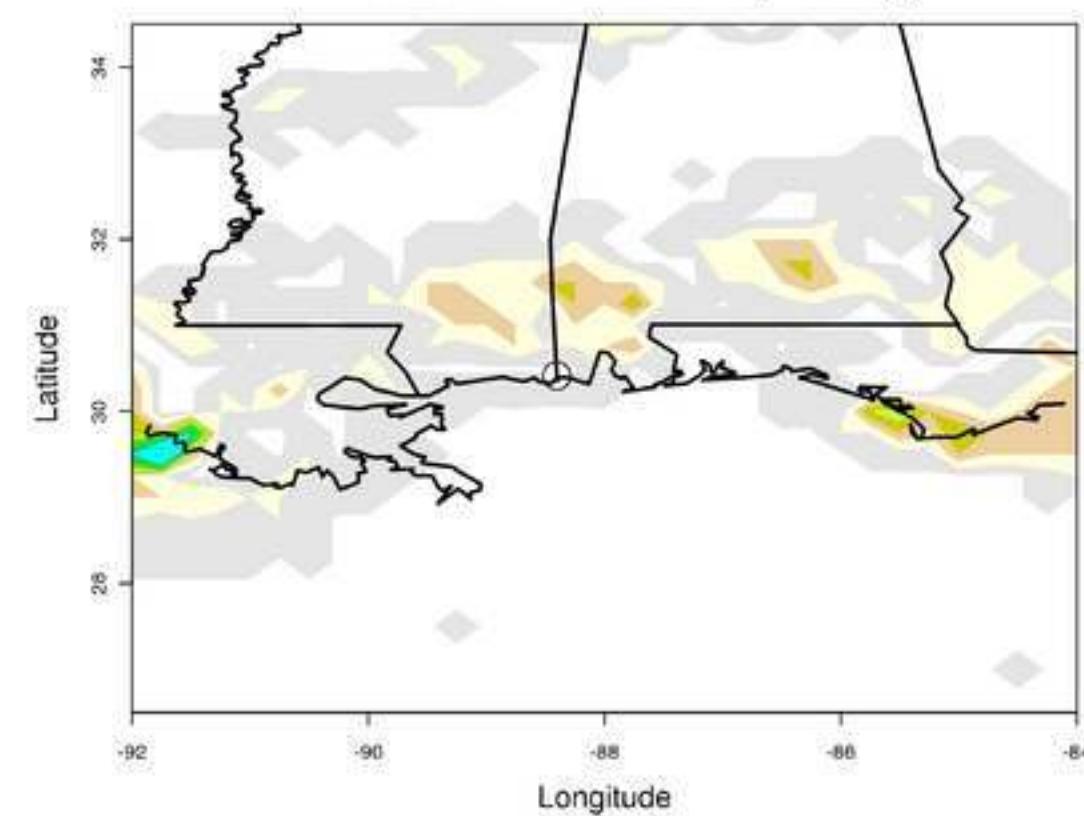
Mixing Heights (m) Estimated with the HYSPLIT Model



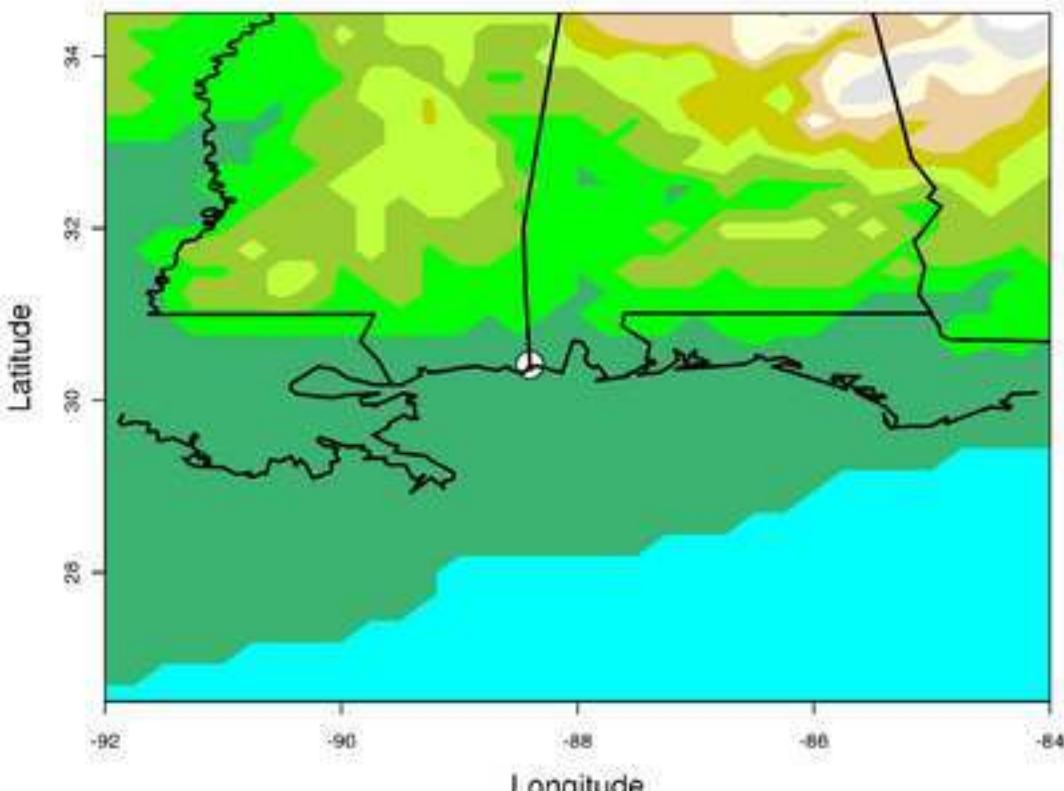
PBLH: Planetary Boundary Layer Height (m)



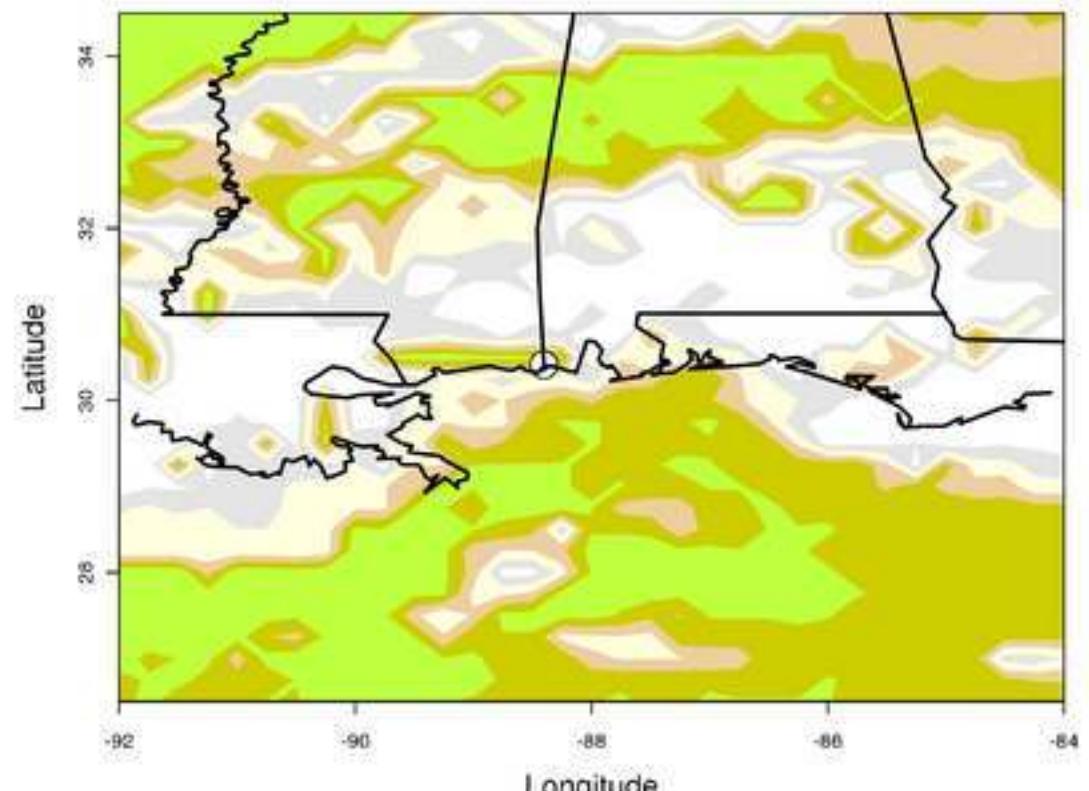
TPP3: 3-hour Accumulated Precipitation (m)



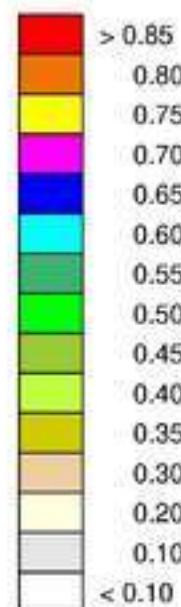
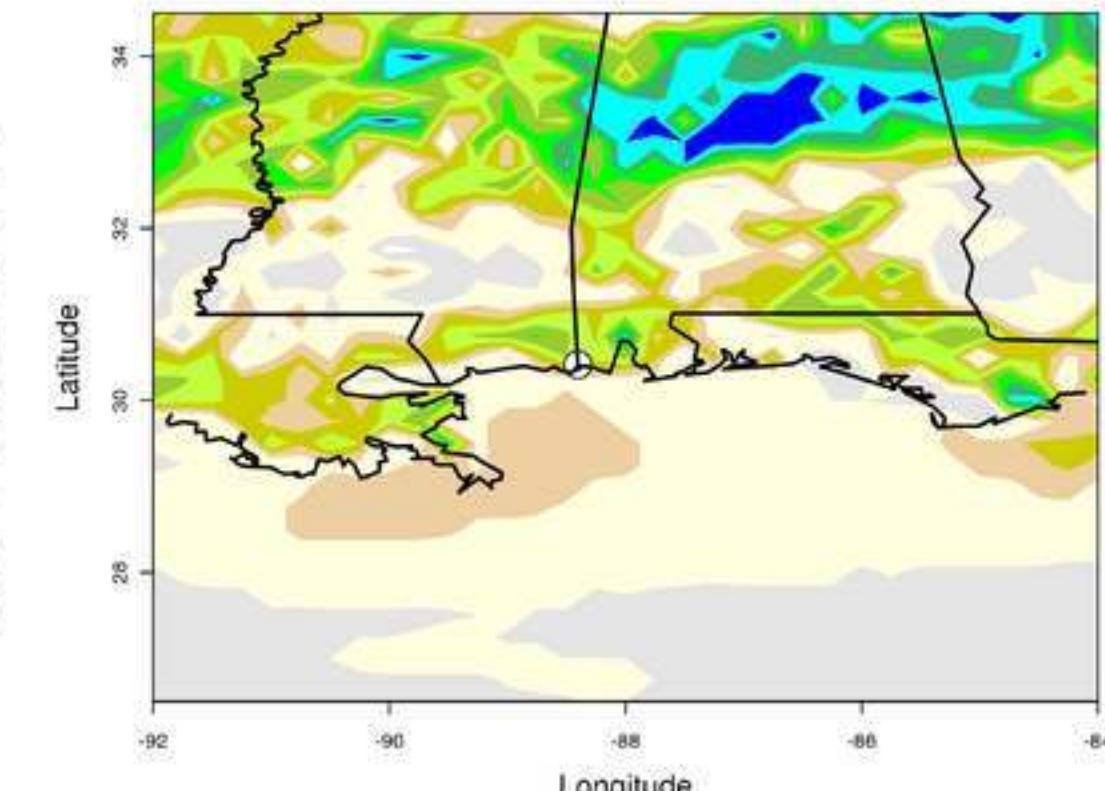
PRSS: Surface Pressure (hPa)



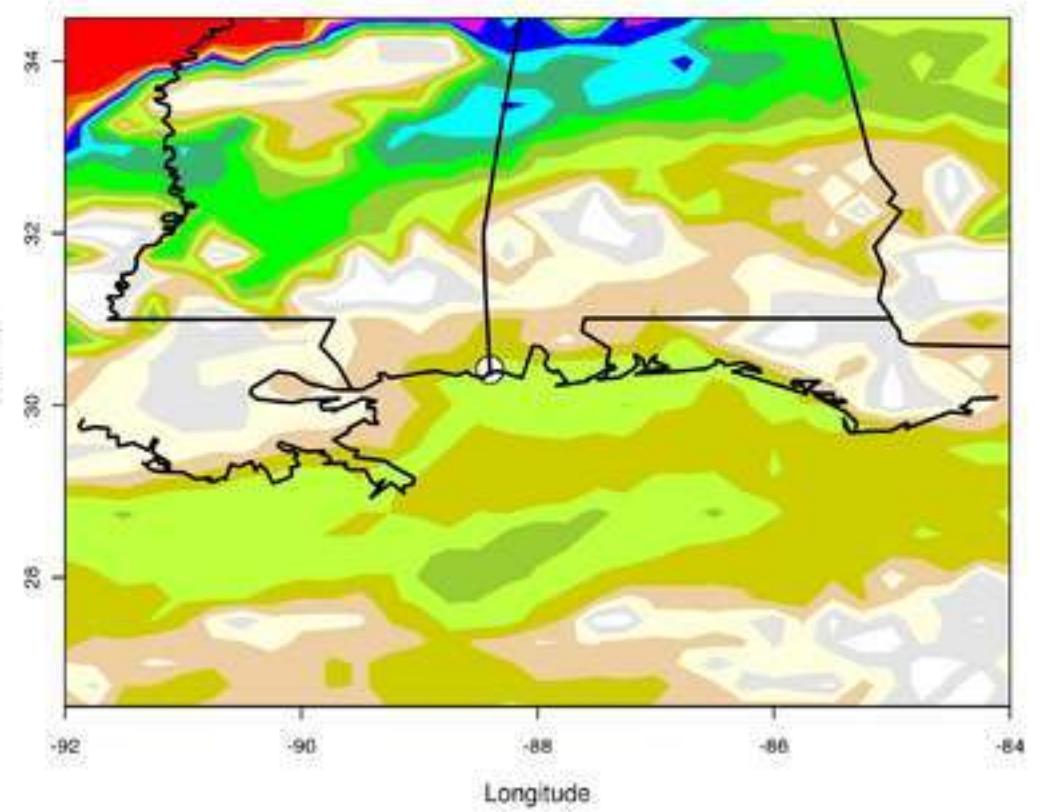
DSWF: Downward Short Wave Radiation Flux (W/m²)



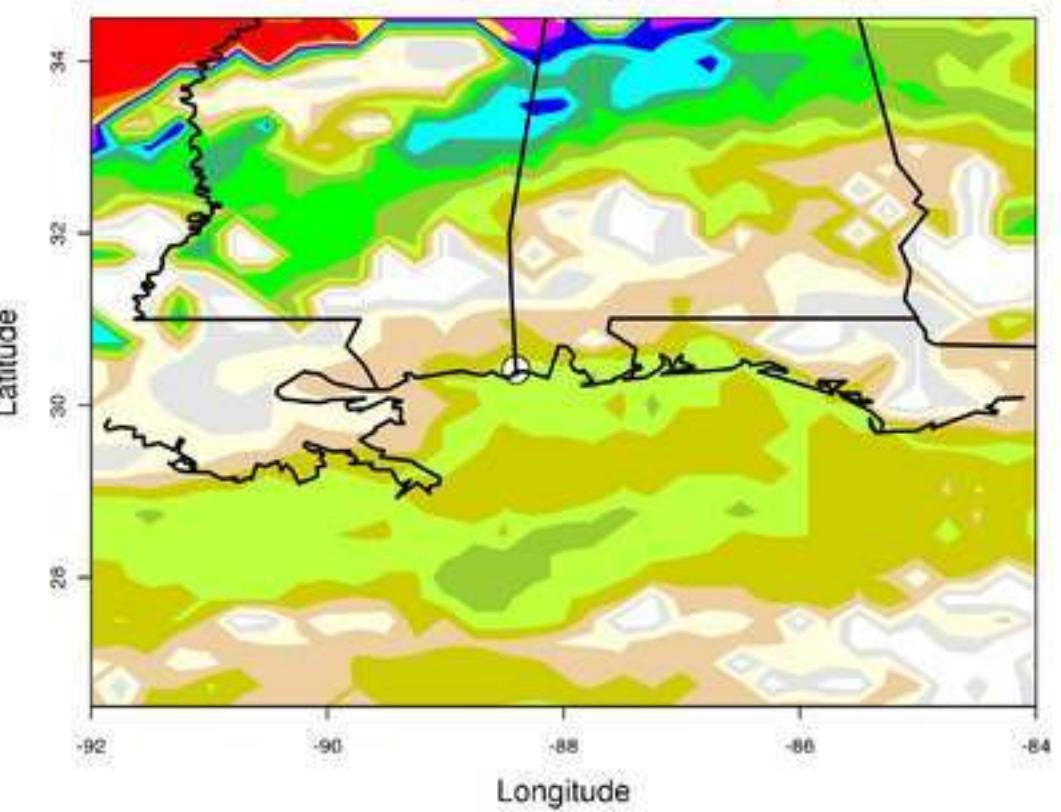
USTR: Friction Velocity (m/sec)



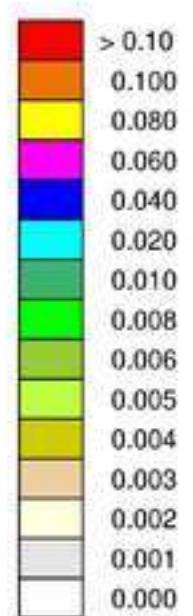
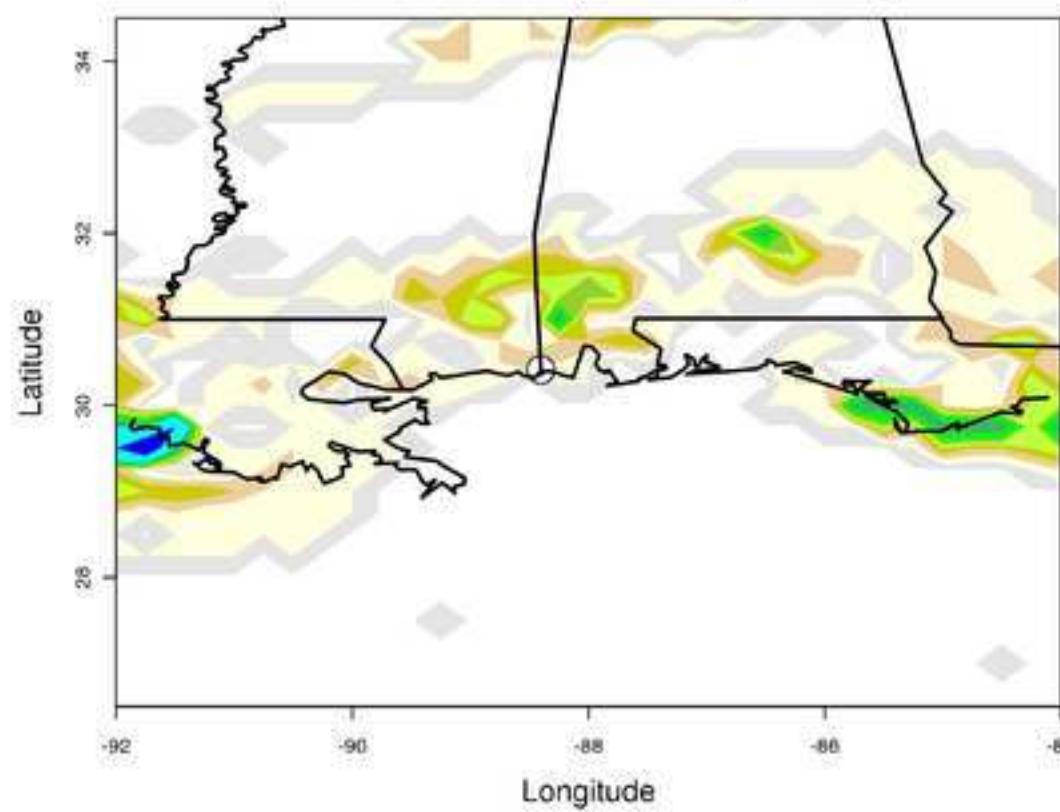
FORECAST for 2010_08_13, local hour = 18
Mixing Heights (m) Estimated with the HYSPLIT Model



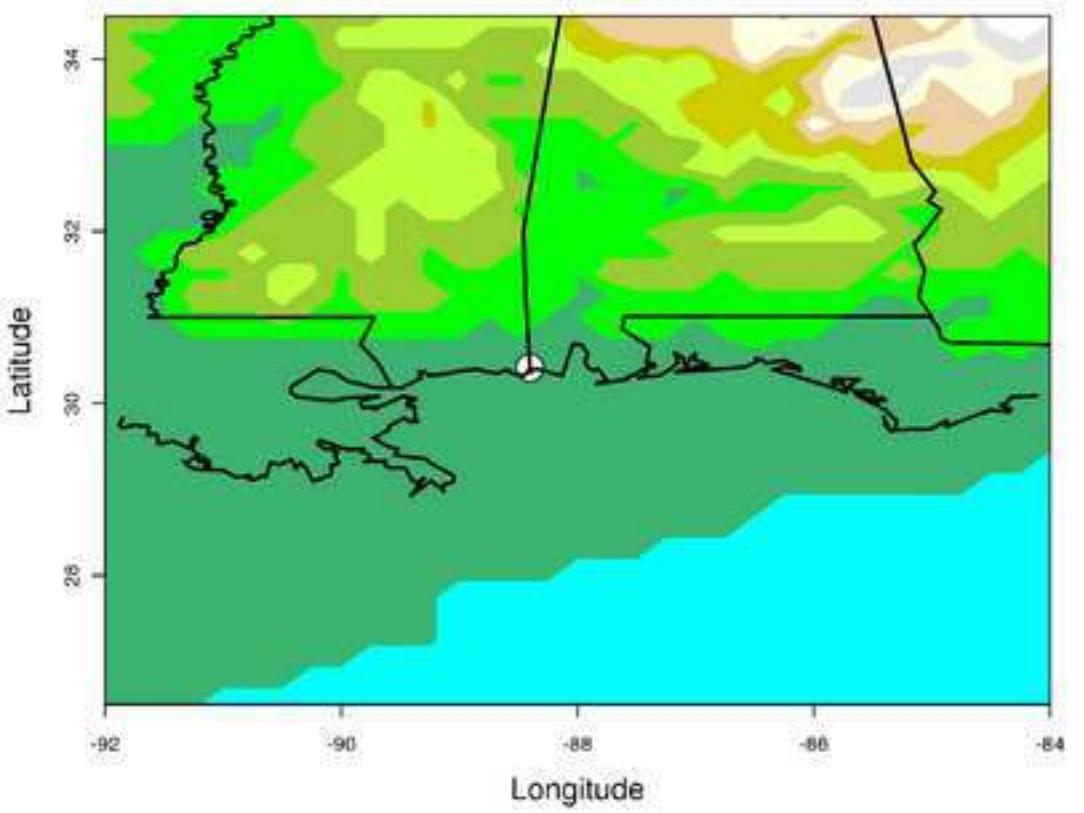
PBLH: Planetary Boundary Layer Height (m)



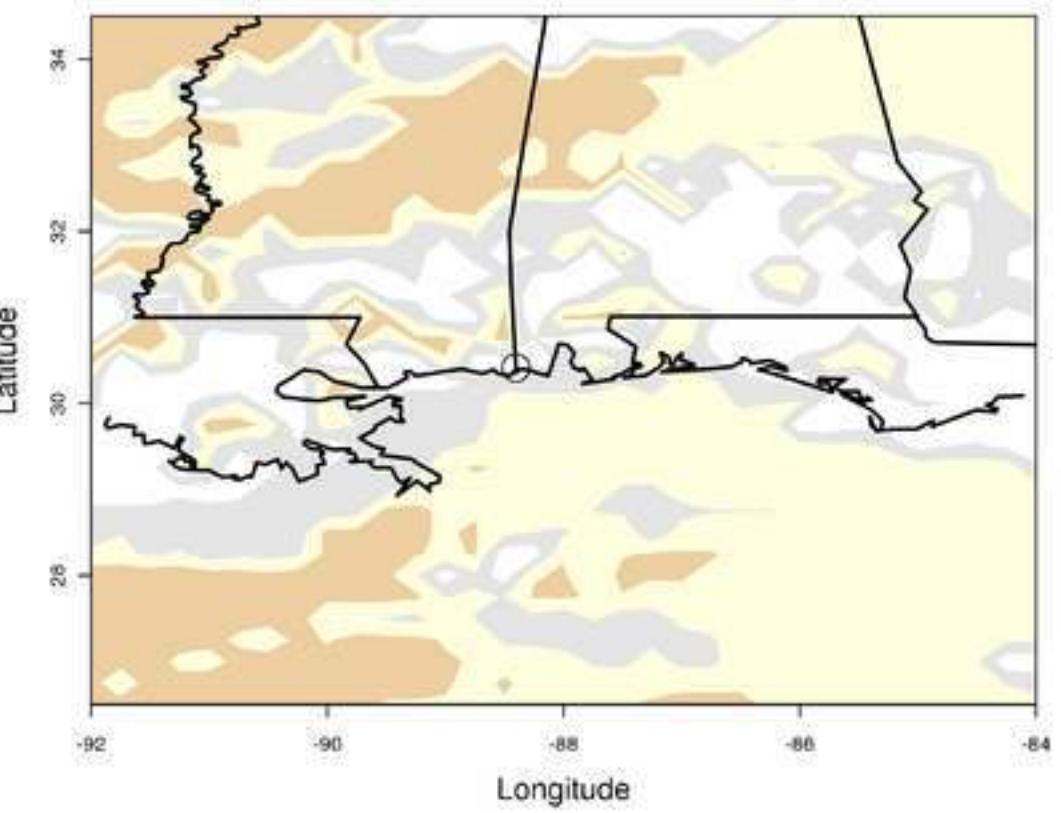
TPP3: 3-hour Accumulated Precipitation (m)



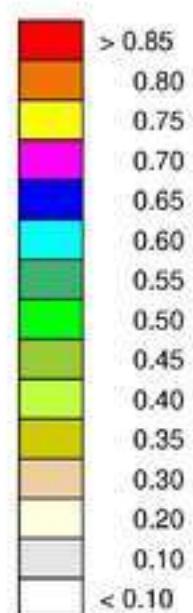
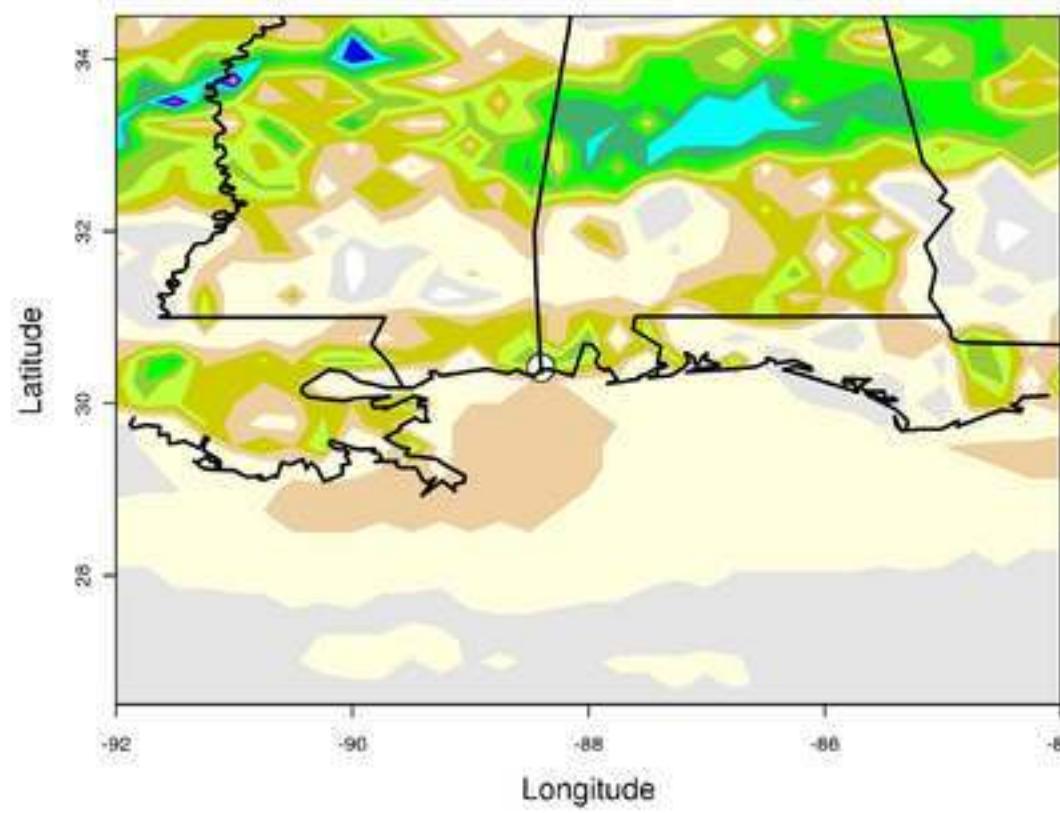
PRSS: Surface Pressure (hPa)



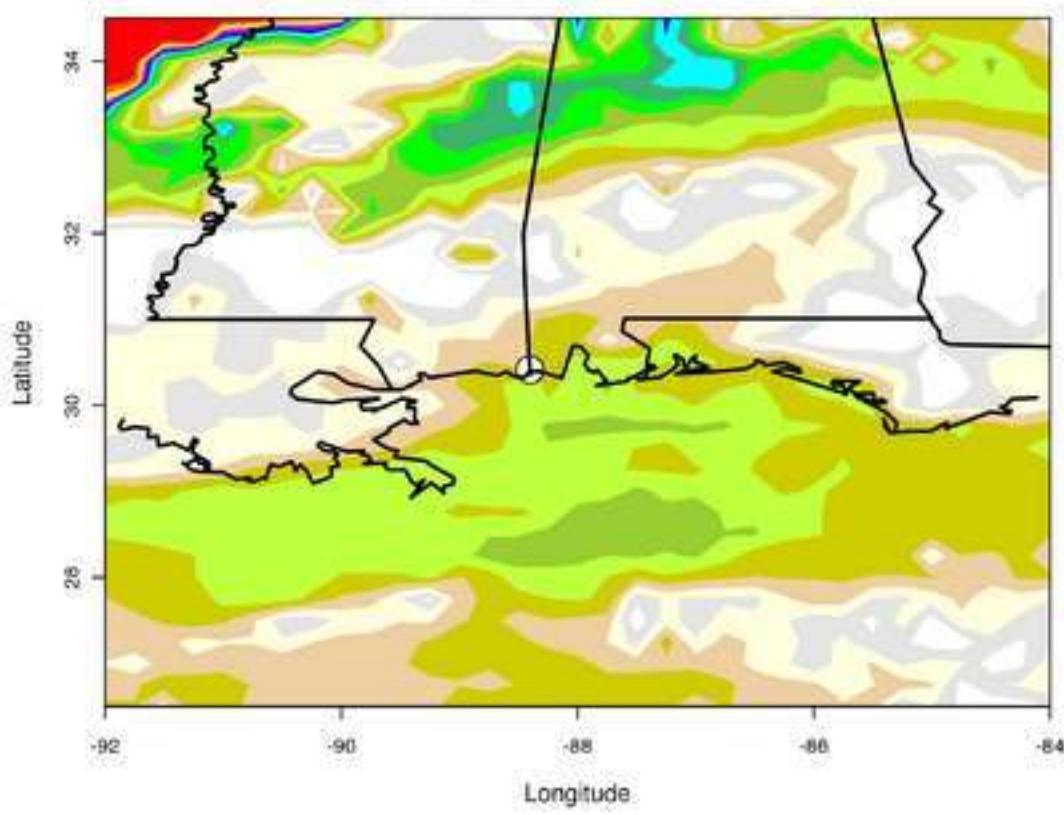
DSWF: Downward Short Wave Radiation Flux (W/m²)



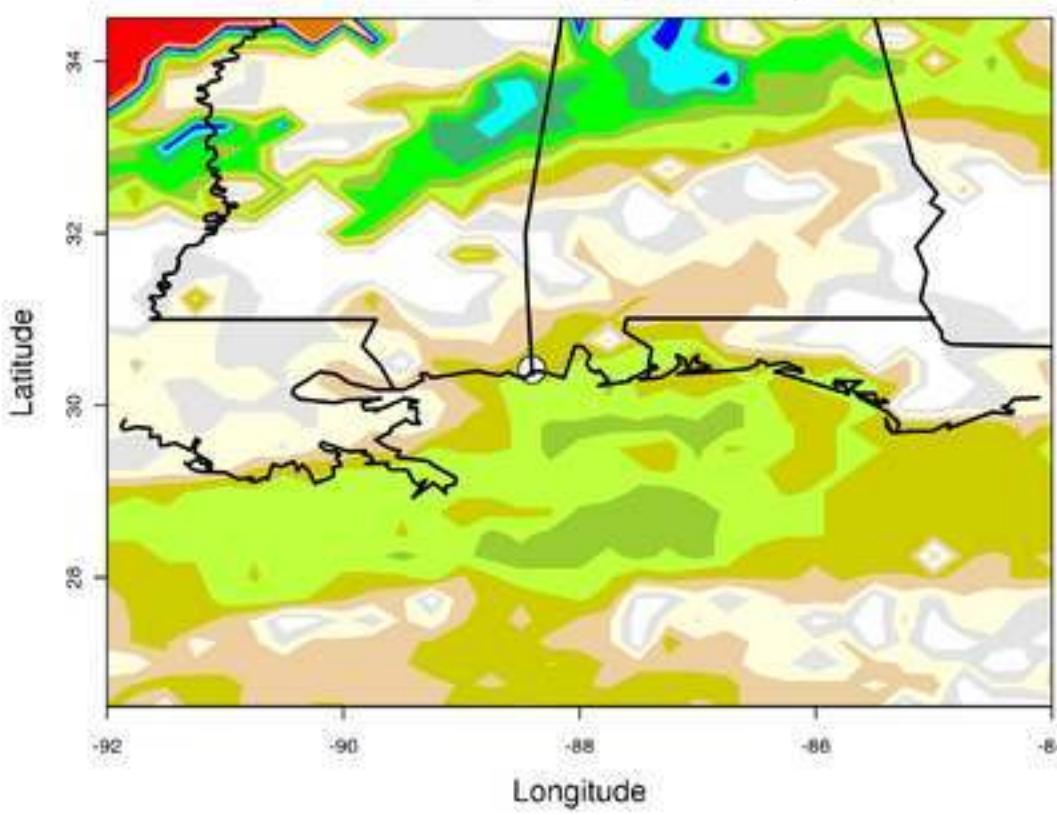
USTR: Friction Velocity (m/sec)



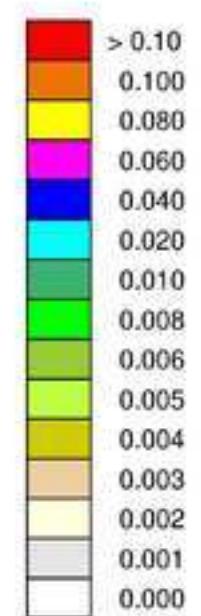
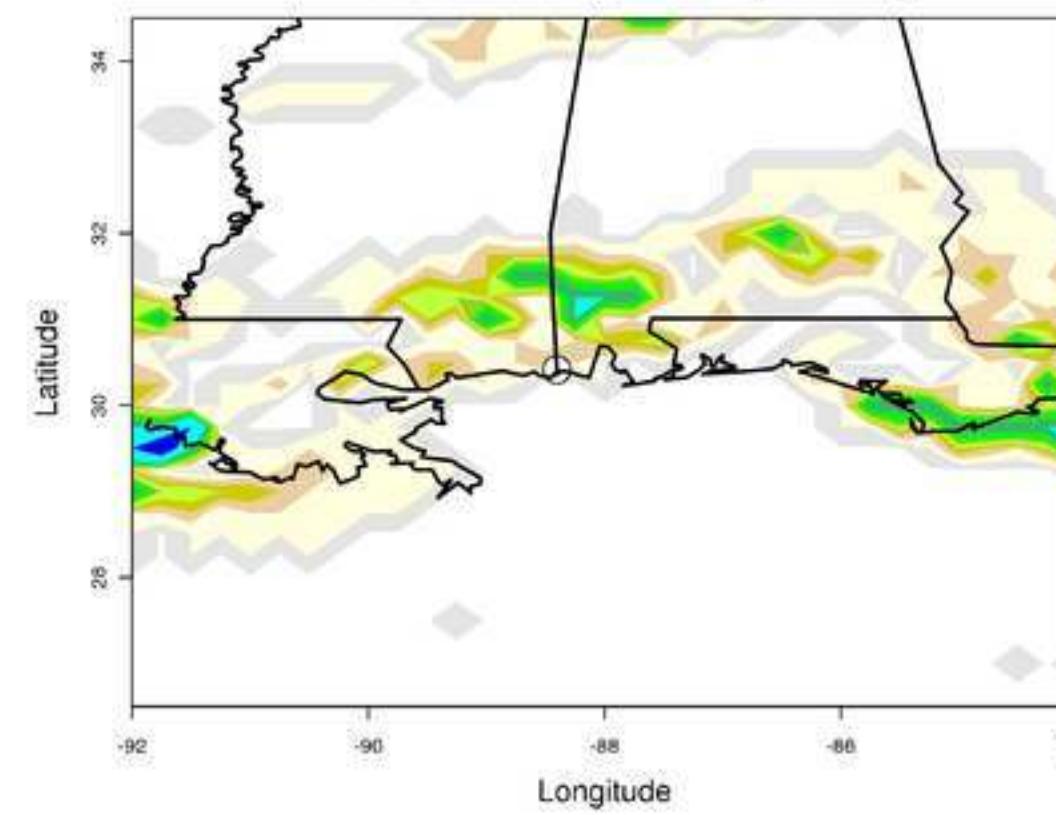
FORECAST for 2010_08_13, local hour = 19
Mixing Heights (m) Estimated with the HYSPLIT Model



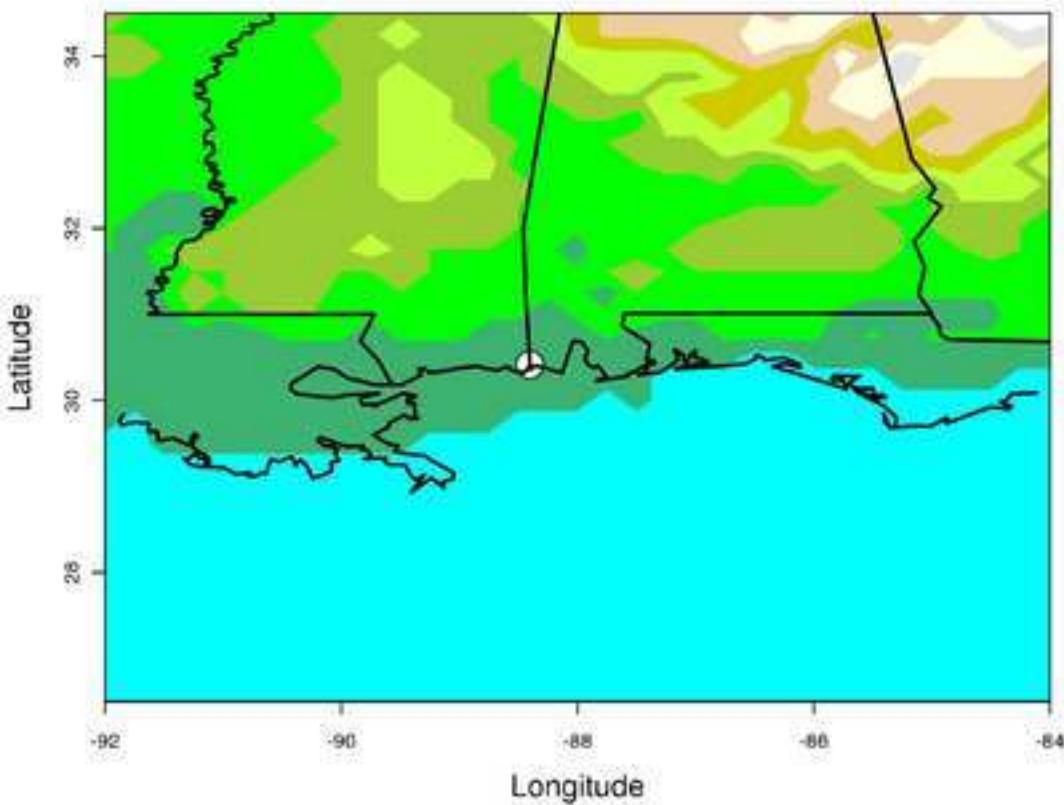
PBLH: Planetary Boundary Layer Height (m)



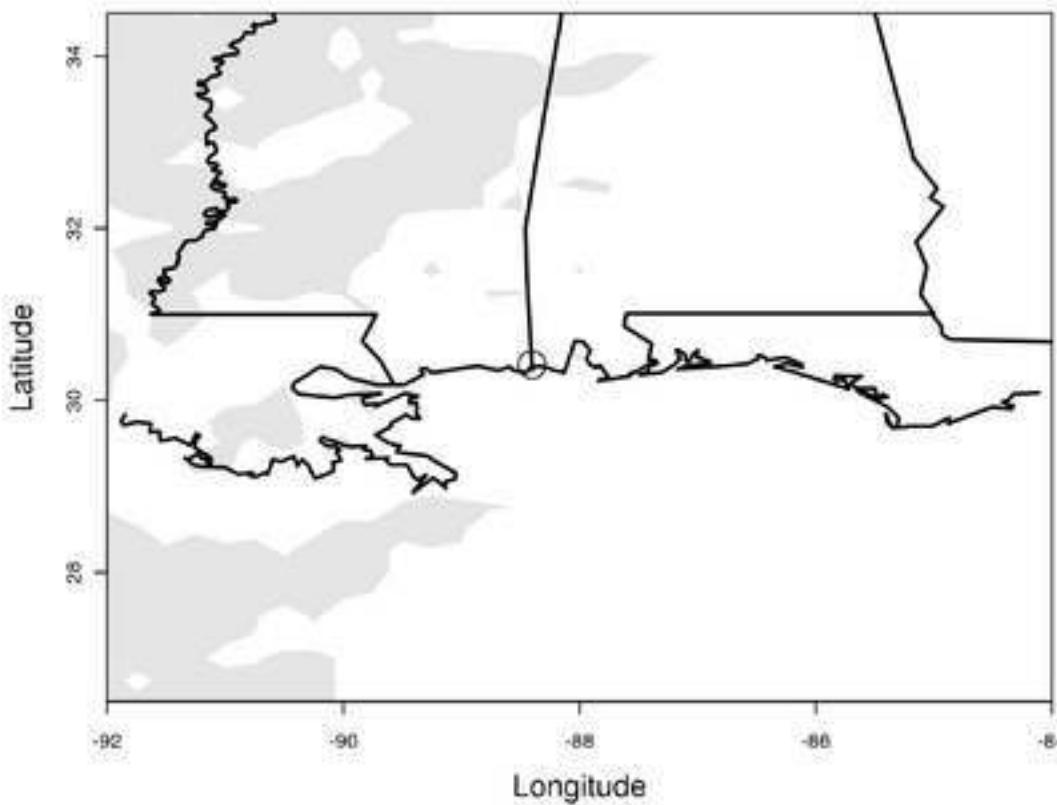
TPP3: 3-hour Accumulated Precipitation (m)



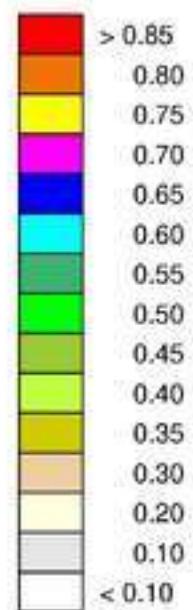
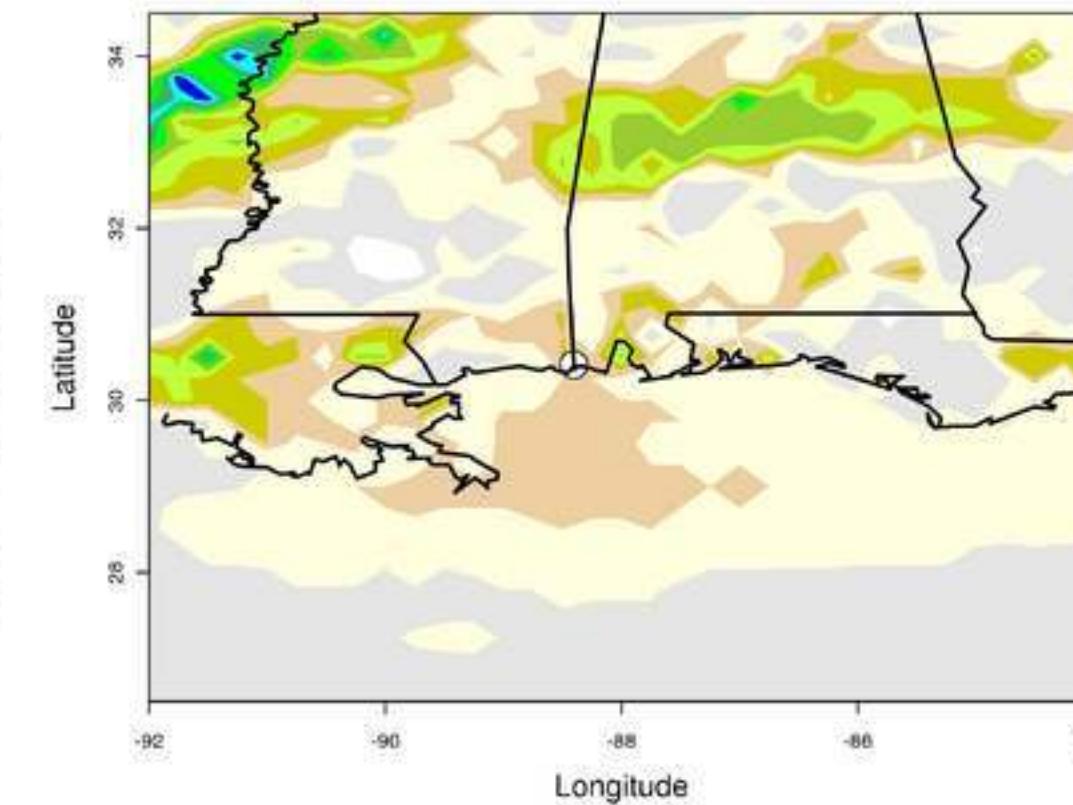
PRSS: Surface Pressure (hPa)



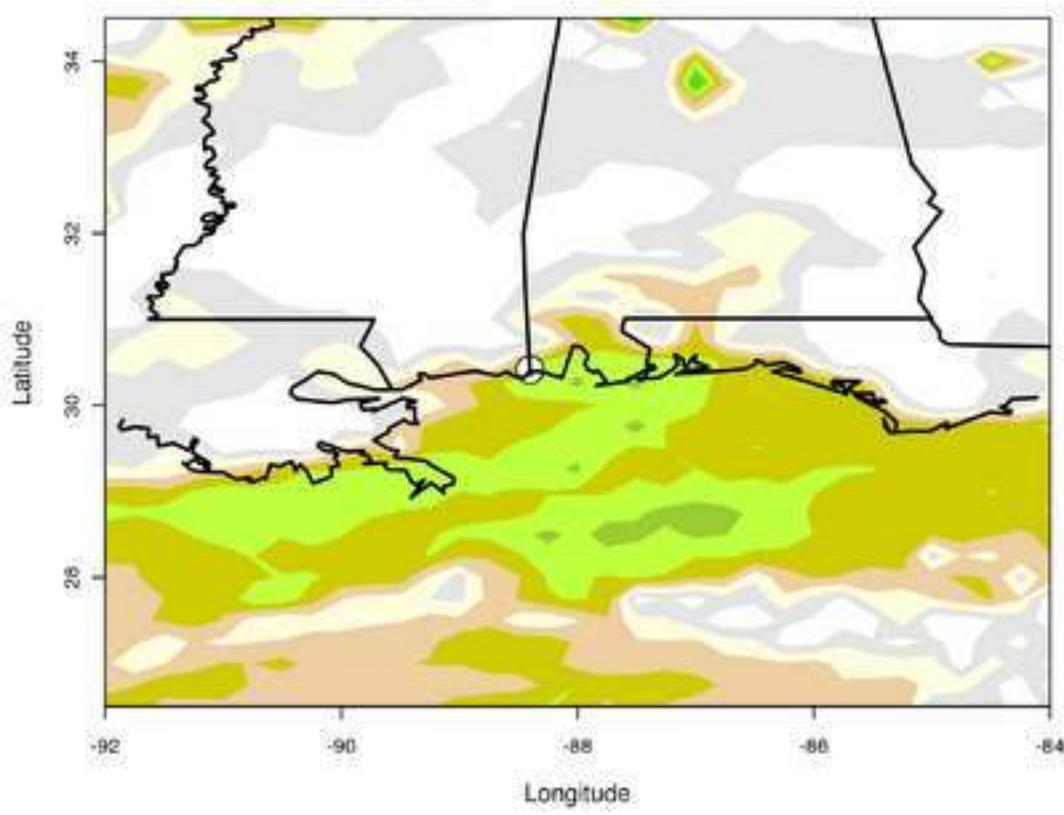
DSWF: Downward Short Wave Radiation Flux (W/m²)



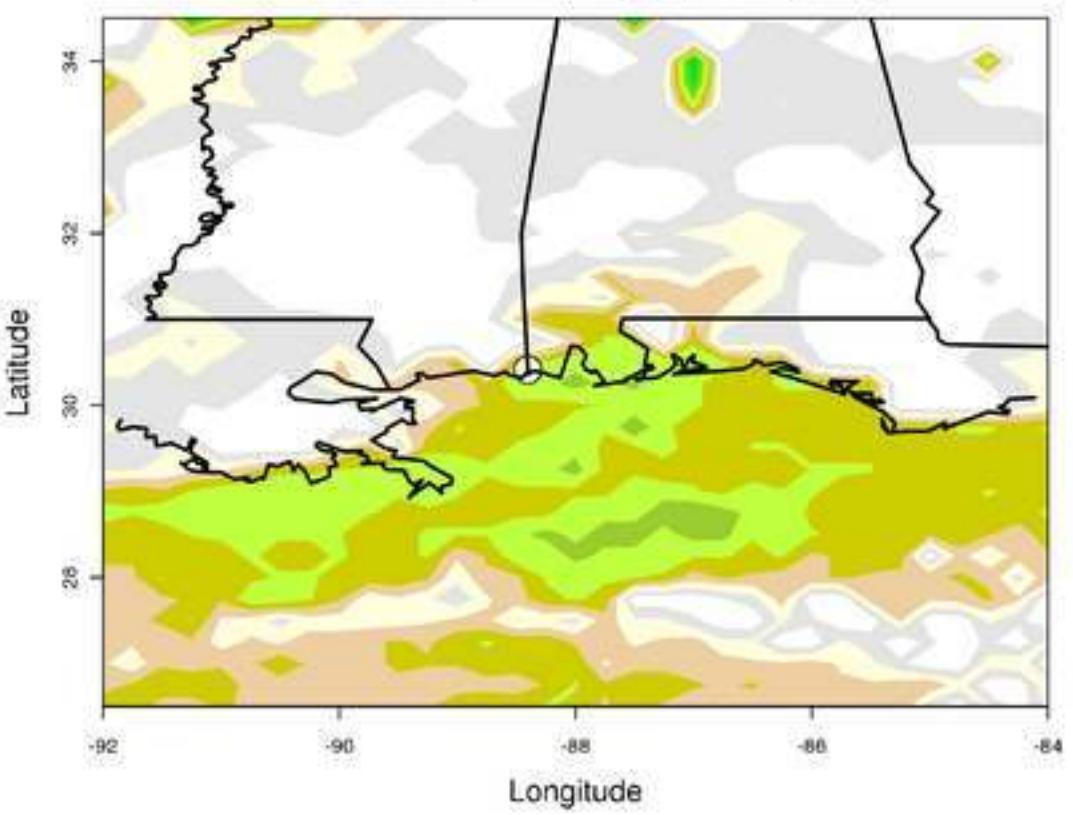
USTR: Friction Velocity (m/sec)



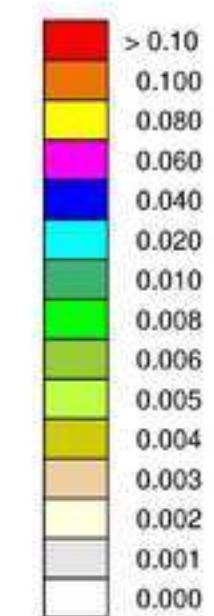
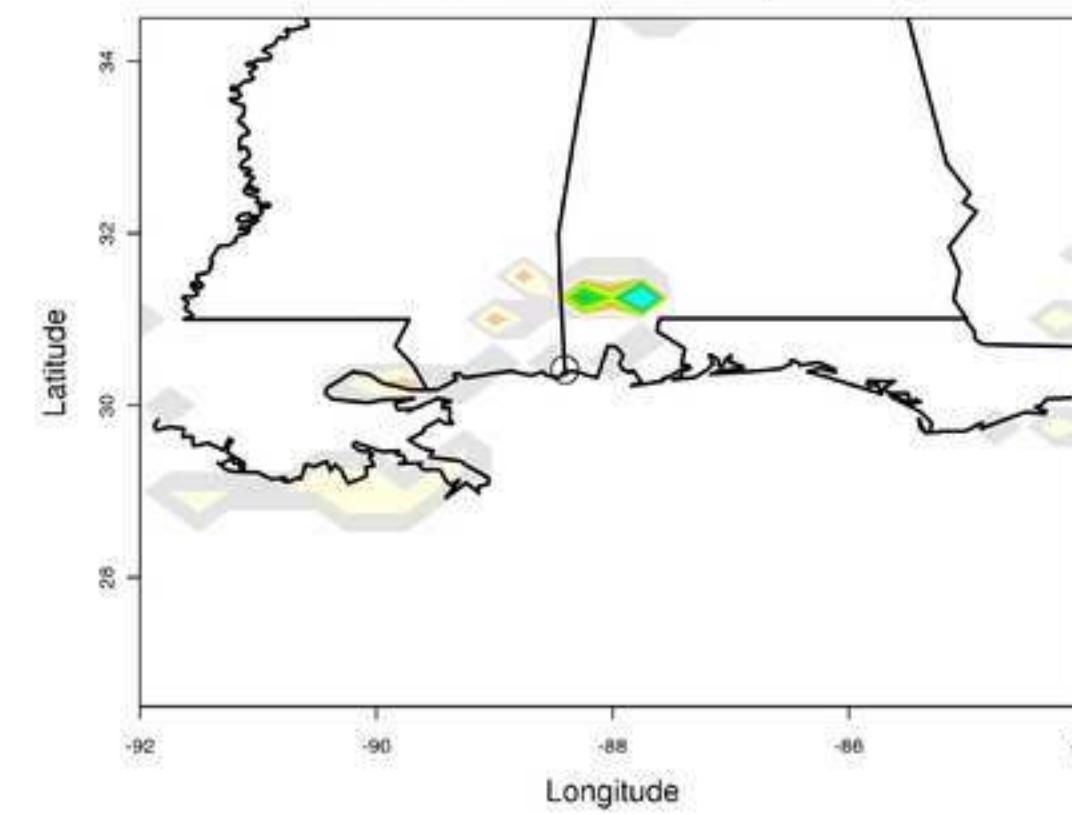
FORECAST for 2010_08_13, local hour = 20
Mixing Heights (m) Estimated with the HYSPLIT Model



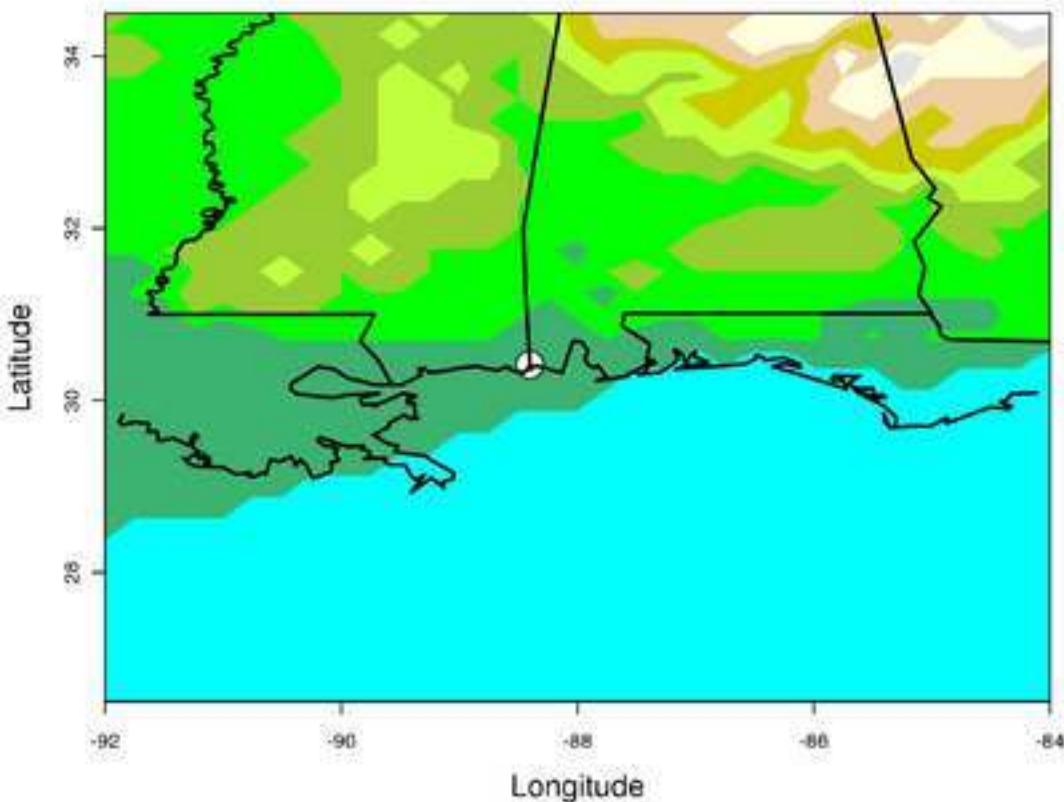
PBLH: Planetary Boundary Layer Height (m)



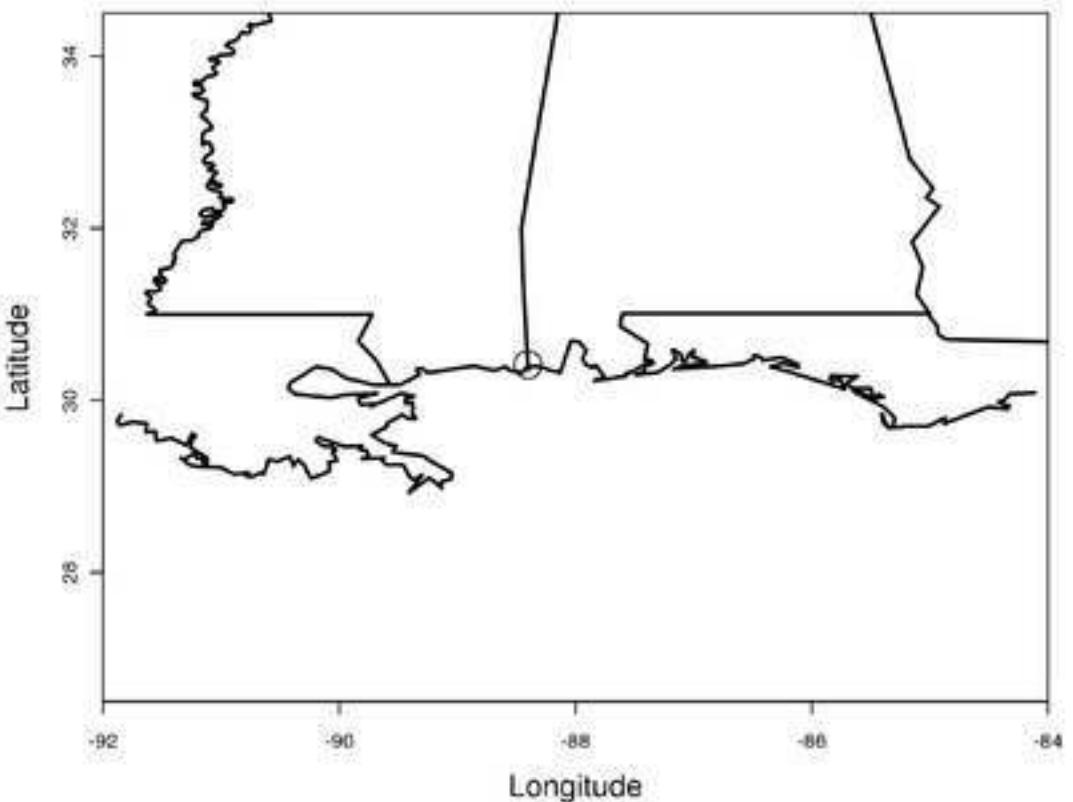
TPP3: 3-hour Accumulated Precipitation (m)



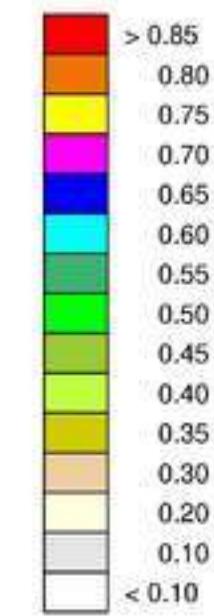
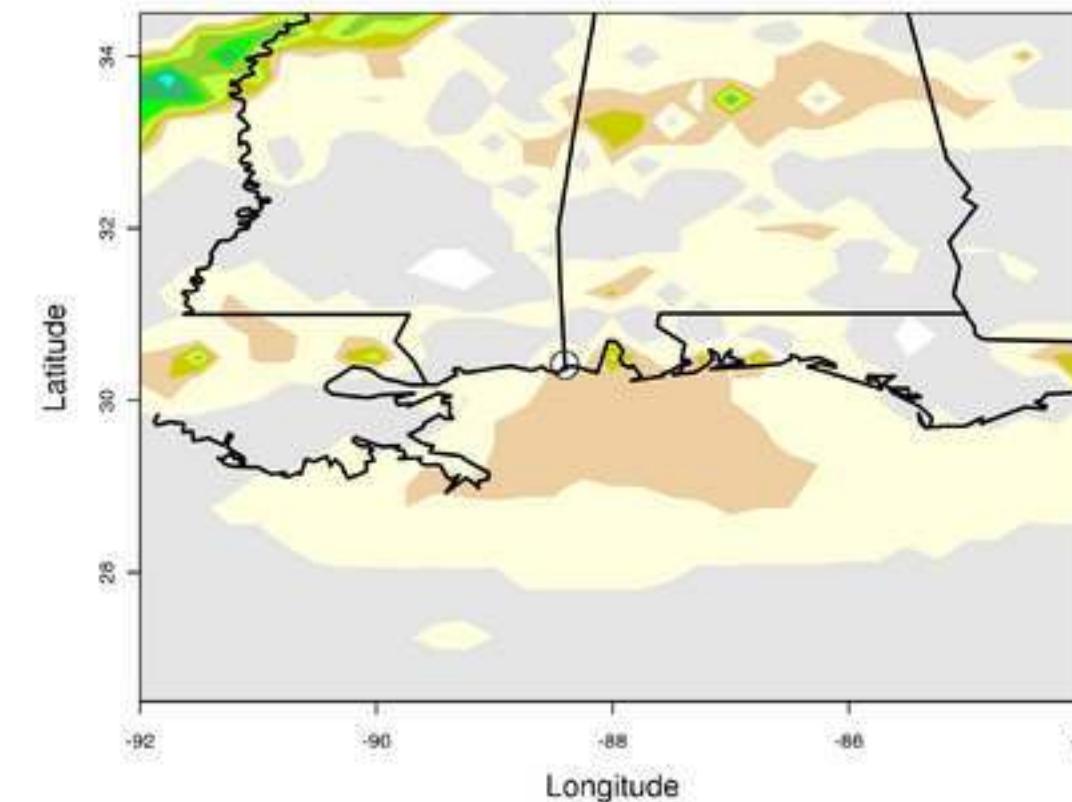
PRSS: Surface Pressure (hPa)



DSWF: Downward Short Wave Radiation Flux (W/m²)



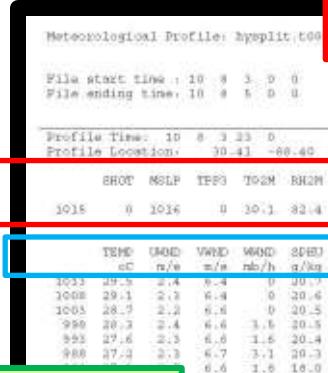
USTR: Friction Velocity (m/sec)



For each hour from 9 AM to 8 PM local time, a printout of the surface and vertical met variables at the Grand Bay NERR follows... (according to the 00-Z forecast)

SURFACE MET PARAMETERS:

PRSS: Surface Pressure (hPa)
 SHGT: Surface Height (m)
 MSLP: Mean Sea Level Pressure (hPa)
 TPP3: 3-hour Accumulated Precipitation (mm)
 T02M: Temperature (deg C) at 2 meter height
 RH2M: Relative Humidity (percent) at 2 meter height
 U10M: U Wind Component (m/sec) at 10 meter height
 V10M: V Wind Component (m/sec) at 10 meter height
 PRSS: Surface Pressure (hPa)
 LHTF: Latent Heat Net Flux (W/m²)
 SHTF: Sensible Heat Net Flux (W/m²)
 USTR: Friction Velocity (m/sec)
 RGHS: Roughness Length (m)
 DSWF: Downward Short Wave Radiation Flux (W/m²)
 PBLH: Planetary Boundary Layer Height (m)



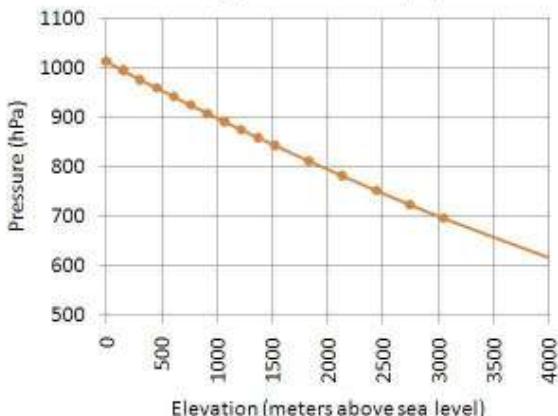
Each level defined by pressure (hPa); see graphs below for an approximate conversion between height and pressure

MET PARAMETERS at VERTICAL LEVELS ABOVE THE SURFACE:

- TEMP: Temperature, deg C
- UWND and VWND: U and V wind components (m/sec); Note that grid is rotated so these are not E-W, N-S winds
- WWND: Vertical velocity (mb/hr) [units of millibars/hr]
- SPHU: Specific Humidity (g water/kg air)
- TKEN: Turbulent Kinetic Energy (J/kg)
- TPOT: Potential Temperature (K)
- WDIR: Wind Direction (degrees)
- WSPD: Wind Speed (m/sec)

353 -24.0 -5.7
304 -22.1 -33.9 -2.3
250 -40.1 -11.9 -3.4
220 -49.3 -14.2 -6.4
181 -60.5 -17.1 -5.0

atmospheric pressure (hPa) as a function of height above sea level (m)



atmospheric pressure (hPa) as a function of height above sea level (m)



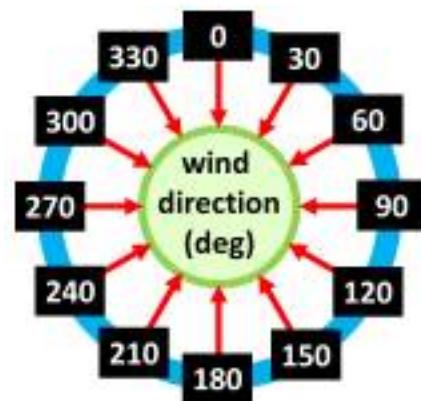
Meteorological Profile: hysplit.t00z.namsf

File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 13 14 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
								hPa						
1013	0	1011	3E-3	27.9	85.0	2.7	-1.6	1013	147	23.3	0.11	0	256	398

	TEMP	UWND	VWND	WWND	SPHU	TKEN	TPOT	WDIR	WSPD
	oC	m/s	m/s	mb/h	g/kg		oK	deg	m/s
1011	27.0	3.1	-1.9	2.6	18.9	0.27	299.3	314.7	3.7
1006	26.6	3.3	-2.0	4.4	18.8	0.32	299.2	314.7	3.9
1001	26.2	3.3	-2.0	5.3	18.8	0.34	299.3	314.6	3.8
996	25.7	3.2	-1.9	5.3	18.6	0.32	299.2	314.0	3.8
991	25.5	3.2	-1.6	7.0	17.4	0.35	299.4	309.7	3.6
986	25.3	3.7	-1.3	7.0	17.2	0.20	299.7	303.5	3.9
981	25.0	4.0	-1.1	7.0	17.0	0	299.9	299.0	4.2
975	24.8	4.1	-0.66	8.8	16.9	0.25	300.1	293.0	4.1
970	24.5	4.3	-0.18	8.8	16.7	0.25	300.3	286.3	4.3
964	24.2	4.5	0	7.0	16.4	0.15	300.5	283.9	4.5
958	23.8	4.7	0.37	7.0	16.4	0.15	300.6	279.3	4.7
952	23.6	4.8	0.81	7.0	16.4	0.30	300.9	274.2	4.9
946	23.1	4.9	1.0	3.5	16.4	0.20	301.1	272.3	5.0
939	22.7	5.3	1.3	3.5	16.4	0.30	301.3	270.2	5.5
932	22.4	5.3	1.8	3.5	16.3	0.18	301.6	265.3	5.6
924	21.9	5.9	2.3	3.5	16.2	0.18	301.8	262.9	6.3
916	21.3	6.0	2.5	3.5	16.1	0.18	301.9	261.1	6.5
894	19.8	6.9	3.4	0	15.6	0.20	302.5	257.8	7.6
867	18.2	7.4	3.5	3.5	14.9	0.20	303.5	258.3	8.2
836	16.5	7.2	4.1	5.1	14.0	0.20	304.9	254.2	8.3
803	14.7	7.2	4.5	3.7	12.9	0.20	306.6	251.5	8.5
766	12.8	6.4	4.7	4.0	11.8	0.20	308.5	247.8	8.0
728	10.7	4.7	5.0	3.7	10.6	0.20	310.9	237.1	6.9
687	8.2	3.7	5.4	3.7	9.3	0.20	313.3	228.7	6.6
643	5.4	3.3	6.0	0	8.1	0.20	316.1	222.5	6.8
597	2.1	1.9	5.4	7.0	6.5	0.20	319.1	212.9	5.7
549	-1.3	0	1.2	0	6.2	0.20	322.7	193.9	1.2
500	-4.7	-1.7	0.29	0	4.9	0.20	327.3	113.9	1.7
451	-9.4	1.2	-0.31	0	2.8	0.20	331.1	298.4	1.2
402	-15.5	2.9	1.2	0	2.2	0.20	334.5	260.4	3.1
352	-22.4	2.8	1.2	0	1.3	0.20	338.0	261.2	3.1
304	-30.8	2.7	0	0	0.76	0.20	340.9	283.9	2.7
259	-39.7	1.1	2.4	0	0.35	0.20	343.6	217.6	2.6
220	-49.2	-3.5	2.3	3.5	0.12	0.20	345.4	137.4	4.2
182	-60.7	-7.1	3.2	12.3	3E-2	0.20	345.7	128.0	7.8
138	-72.8	0.38	-5.6	1.5	1E-2	0.20	353.2	10.0	5.6
88	-65.7	-10.6	-2.0	-2.4	1E-2	0.20	415.9	93.2	10.8
63	-57.5	-17.4	0.81	-0.88	1E-2	0.20	475.8	106.5	17.5
38	-46.5	-23.6	-5.6	0.40	2E-2	0.20	578.9	90.5	24.2



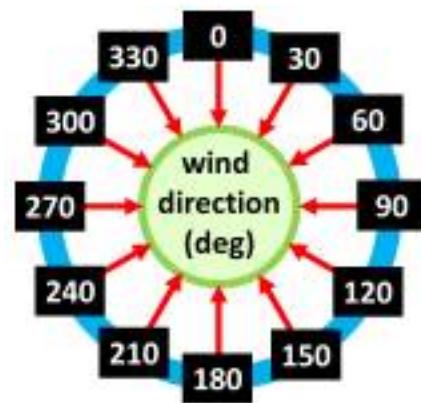
Meteorological Profile: hysplit.t00z.nam6f

File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 13 15 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
								hPa						
1012	0	1010	3E-3	28.5	78.7	2.9	-0.38	1012	149	16.6	0.12	0	560	685

	TEMP	UWND	VWND	WWND	SPHU	TKEN	TPOT	WDIR	WSPD
	oC	m/s	m/s	mb/h	g/kg		oK	deg	m/s
1010	27.9	2.9	-0.79	1.8	18.2	0.35	300.2	299.2	3.0
1005	27.4	2.8	-0.69	2.0	18.1	0.37	300.2	297.5	2.9
1000	27.0	2.8	-0.65	3.9	18.1	0.39	300.2	296.9	2.9
995	26.6	2.8	-0.59	4.5	18.1	0.40	300.1	295.9	2.8
990	26.1	2.8	-0.80	7.0	18.0	0.36	300.1	300.0	2.9
985	25.6	3.1	-0.62	4.9	18.0	0.36	300.1	295.4	3.1
980	25.4	3.7	-0.50	5.3	17.0	0.25	300.3	291.5	3.8
975	25.0	4.0	-0.24	5.9	16.7	0.25	300.4	287.3	4.1
969	24.7	4.6	0.13	7.8	16.5	0.40	300.6	282.3	4.6
964	24.3	4.9	0.14	7.8	16.4	0	300.6	282.2	4.9
958	24.0	5.4	0.27	7.7	16.2	0.40	300.9	281.0	5.4
952	23.6	5.7	0.63	10.5	16.2	0.40	301.0	277.5	5.7
945	23.3	5.9	1.1	7.0	16.3	0.40	301.3	273.5	6.0
938	22.7	6.2	1.2	4.3	16.1	0.30	301.3	272.8	6.3
931	22.4	6.2	1.6	7.0	16.1	0.17	301.6	269.1	6.4
924	21.9	6.7	2.1	7.0	16.0	0.18	301.8	266.3	7.0
915	21.2	6.7	2.4	3.5	15.8	0.20	302.0	264.0	7.1
894	19.8	7.4	2.7	4.3	15.3	0.20	302.5	263.7	7.9
867	18.4	7.5	3.1	7.0	14.4	0.20	303.7	261.5	8.1
836	16.8	7.5	3.6	7.0	13.6	0.20	305.2	258.0	8.3
802	15.0	7.5	4.4	7.0	12.7	0.20	306.9	253.4	8.7
766	13.0	6.6	4.9	7.0	11.7	0.20	308.8	247.3	8.2
727	10.9	6.0	5.0	7.0	10.6	0.20	311.1	243.9	7.8
686	8.2	4.5	5.4	0	9.4	0.20	313.4	234.2	7.0
642	5.3	4.0	6.1	0	8.2	0.20	316.1	227.2	7.3
596	2.3	4.1	6.2	7.0	6.8	0.20	319.4	227.1	7.4
548	-1.3	2.3	3.0	7.0	6.1	0.20	322.8	231.6	3.8
500	-4.6	0	1.5	0	5.1	0.20	327.5	193.9	1.5
451	-9.2	0.50	-0.54	6.6	2.6	0.20	331.5	330.9	0.7
401	-15.4	2.3	1.5	0	2.0	0.20	334.7	250.8	2.8
352	-22.2	2.0	1.8	0	1.2	0.20	338.4	241.1	2.7
303	-30.7	1.4	0	0	0.73	0.20	341.0	283.9	1.4
259	-39.6	0.26	1.8	0	0.35	0.20	343.7	202.1	1.8
220	-49.2	-2.6	1.3	-7.0	0.13	0.20	345.4	129.8	2.9
182	-60.5	-6.5	1.9	3.5	3E-2	0.20	345.9	120.3	6.8
138	-73.2	-0.26	-5.0	-3.1	1E-2	0.20	352.6	16.8	5.0
88	-65.7	-9.4	-3.7	0.76	1E-2	0.20	416.0	82.1	10.1
63	-58.6	-17.2	1.3	-1E-1	1E-2	0.20	473.6	108.2	17.2
38	-46.0	-24.0	-6.5	-0.71	2E-2	0.20	580.3	88.6	24.9



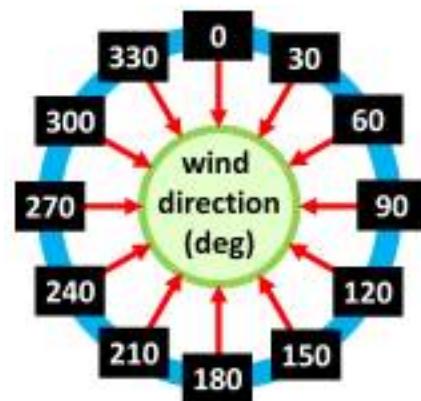
Meteorological Profile: hysplit.t00z.namsf

File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 13 16 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
								hPa						
1010	0	1010	0	29.2	75.5	2.4	1.00	1010	143	16.3	0.11	0	608	1043

	TEMP	UWND	VWND	WWND	SPHU	TKEN	TPOT	WDIR	WSPD
	oC	m/s	m/s	mb/h	g/kg		oK	deg	m/s
1007	28.4	2.5	0.76	2.6	17.9	0.36	300.9	266.9	2.6
1002	27.9	2.4	0.84	0	17.9	0.34	300.9	264.7	2.5
997	27.5	2.4	0.87	2.0	17.8	0.37	300.9	263.9	2.5
993	27.1	2.3	0.92	0	17.8	0.39	300.9	262.4	2.5
988	26.6	2.3	0.71	4.7	17.8	0.40	300.9	266.7	2.4
982	26.2	2.3	0.73	4.2	17.8	0.40	300.8	266.2	2.4
977	25.6	2.5	0.84	2.5	17.8	0.50	300.8	265.5	2.7
972	25.3	2.7	0.73	3.8	17.6	0.35	300.9	268.9	2.8
967	25.0	3.3	0.88	2.7	16.9	0.50	301.1	269.0	3.4
961	24.6	3.9	1.2	3.8	16.5	0.50	301.2	266.9	4.1
955	24.3	4.5	1.3	4.1	16.5	0.15	301.4	267.5	4.7
949	23.7	4.7	1.5	6.4	16.2	0.15	301.3	266.1	5.0
943	23.4	5.1	1.6	6.9	16.1	0.15	301.6	266.1	5.3
936	22.9	5.4	1.8	8.5	15.8	0.30	301.8	265.2	5.7
929	22.5	5.9	2.0	6.7	15.6	0.20	302.0	265.3	6.2
921	22.0	6.3	2.1	6.0	15.4	0.20	302.2	265.9	6.6
913	21.4	6.1	2.2	5.4	15.1	0.20	302.4	263.8	6.5
891	19.9	6.2	2.2	3.5	14.6	0.20	302.9	264.1	6.6
864	18.5	6.4	2.5	3.5	14.1	0.20	304.1	262.2	6.9
834	16.9	6.9	3.4	3.5	13.5	0.20	305.5	257.7	7.7
800	15.0	7.0	4.2	0	12.7	0.20	307.2	252.6	8.2
764	13.1	6.5	4.9	0	11.7	0.20	309.2	247.1	8.1
725	11.0	5.5	5.6	0	10.6	0.20	311.5	238.4	7.9
684	8.3	4.7	5.8	0	9.4	0.20	313.8	233.1	7.4
641	5.4	4.2	6.1	0	8.1	0.20	316.4	228.4	7.4
595	2.3	4.3	6.0	0	6.7	0.20	319.6	229.3	7.4
547	-1.1	3.1	4.2	7.0	5.9	0.20	323.4	230.4	5.2
498	-4.4	1.6	3.8	0	5.1	0.20	327.9	216.5	4.1
450	-8.9	0.67	0	7.4	2.6	0.20	332.2	283.9	0.7
400	-15.2	1.6	1.5	0	1.9	0.20	335.2	240.9	2.2
351	-22.1	1.6	1.7	0	1.1	0.20	338.8	237.0	2.3
303	-30.6	1.5	0	0	0.71	0.20	341.4	283.9	1.5
258	-39.5	0.58	1.3	-14.1	0.37	0.20	344.3	218.1	1.4
219	-49.1	-1.6	-1.7	-14.1	0.14	0.20	345.9	57.0	2.4
182	-60.6	-5.0	0.85	-3.5	3E-2	0.20	346.2	113.5	5.1
137	-73.8	-0.27	-3.3	-3.9	1E-2	0.20	351.8	18.5	3.3
88	-65.2	-9.4	-5.3	0.67	1E-2	0.20	417.3	74.7	10.8
63	-59.3	-16.3	1.3	0.76	1E-2	0.20	472.5	108.4	16.3
38	-45.8	-25.6	-6.4	0.32	2E-2	0.20	581.2	89.8	26.4



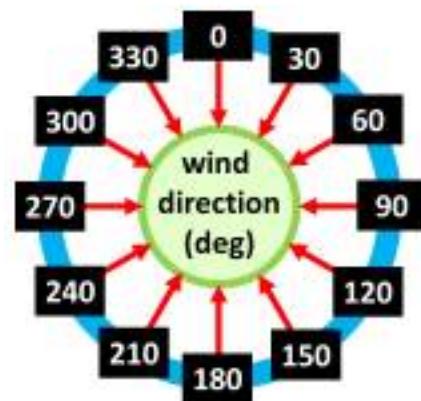
Meteorological Profile: hysplit.t00z.nam6f

File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 13 17 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS hPa	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
1009	0	1010	0	29.5	74.0	2.3	2.6	1009	151	15.9	0.13	0	624	1171

	TEMP oC	UWND m/s	VWND m/s	WWND mb/h	SPHU g/kg	TKEN	TPOT oK	WDIR deg	WSPD m/s
1007	28.9	1.9	2.3	0	18.2	0.34	301.4	232.8	3.0
1002	28.5	1.8	2.5	2.0	18.1	0.38	301.5	230.2	3.0
997	28.0	1.8	2.5	0	18.1	0.47	301.4	230.0	3.0
992	27.6	2.2	2.3	2.2	18.1	0.43	301.4	238.6	3.2
987	27.2	2.2	2.3	0	17.9	0.45	301.4	237.9	3.2
982	26.7	2.2	2.4	0	17.9	0.47	301.4	236.3	3.2
977	26.2	2.5	2.3	1.7	17.9	0.47	301.4	240.3	3.4
972	25.8	2.6	2.4	3.9	17.9	0.50	301.4	241.2	3.5
966	25.1	2.2	2.4	4.4	17.9	0.47	301.2	236.8	3.3
961	24.7	2.8	2.4	4.1	17.9	0.50	301.3	242.6	3.7
955	24.3	3.5	2.5	4.8	16.8	0.51	301.4	248.5	4.3
949	23.9	4.0	2.5	3.8	16.3	0.42	301.6	251.7	4.7
942	23.5	4.5	2.8	4.3	16.1	0.24	301.7	251.9	5.3
936	23.0	4.8	3.1	4.3	16.0	0.24	301.9	251.2	5.7
929	22.6	5.2	3.0	6.0	15.7	0.20	302.1	253.9	6.0
921	22.0	5.2	2.9	7.1	15.4	0.20	302.2	254.8	6.0
912	21.6	5.4	2.4	6.6	14.8	0.20	302.6	260.3	5.9
891	20.2	5.9	1.6	5.6	14.2	0.20	303.3	268.8	6.1
864	18.7	6.3	2.3	0	13.9	0.20	304.3	263.8	6.7
833	17.0	6.8	3.3	0	13.4	0.20	305.7	258.4	7.6
800	15.1	6.9	4.1	0	12.8	0.20	307.2	253.0	8.0
764	12.8	7.3	4.9	-7.0	11.9	0.20	308.9	249.8	8.8
725	10.6	6.5	5.6	-7.0	10.9	0.20	311.2	243.3	8.6
684	8.2	5.3	6.4	-7.0	9.8	0.20	313.6	233.7	8.3
641	5.3	4.3	6.1	0	8.5	0.20	316.2	229.2	7.5
594	2.1	3.9	6.1	0	6.8	0.20	319.4	226.9	7.2
547	-1.2	3.3	5.1	0	5.7	0.20	323.2	226.6	6.0
498	-4.8	1.6	5.6	0	5.2	0.20	327.5	209.9	5.9
450	-8.9	1.8	1.9	0	2.7	0.20	332.1	237.9	2.6
400	-15.1	1.4	1.9	0	2.0	0.20	335.3	230.4	2.3
351	-22.0	1.7	1.4	0	1.1	0.20	338.9	243.3	2.2
303	-30.6	1.9	-1.0	0	0.74	0.20	341.5	312.1	2.1
258	-39.5	0.69	0.81	-14.1	0.37	0.20	344.2	234.4	1.1
219	-49.0	-0.92	-3.8	-14.2	0.14	0.20	346.1	27.5	3.9
182	-60.5	-3.3	0.54	3.5	3E-2	0.20	346.2	113.1	3.3
137	-74.6	-1.3	-3.3	-3.5	1E-2	0.20	350.5	35.7	3.5
88	-64.3	-10.4	-5.1	1.4	1E-2	0.20	419.0	77.8	11.6
63	-59.2	-14.7	1.1	0.75	1E-2	0.20	472.6	108.1	14.8
38	-45.6	-26.6	-5.4	0.29	2E-2	0.20	581.9	92.3	27.2



Meteorological Profile: hysplit.t00z.nammf

File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 13 18 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS	LHTF	SHTF	USTR	RHHS	DSWF	PBLH
								hPa						
1010	0	1010	0	29.7	75.6	2.9	4.4	1010	173	15.8	0.17	0	649	927

	TEMP	UWND	VWND	WWND	SPHU	TKEN	TPOT	WDIR	WSPD
	oC	m/s	m/s	mb/h	g/kg		oK	deg	m/s
1008	28.9	3.0	4.4	0	18.5	0.39	301.4	228.4	5.3
1003	28.4	2.9	4.2	0	18.5	0.45	301.4	228.3	5.1
998	28.2	2.9	4.3	1.8	18.4	0.53	301.6	227.8	5.1
993	27.6	2.8	4.3	0	18.4	0.57	301.3	227.2	5.1
988	27.4	3.3	4.3	0	18.3	0.58	301.6	230.9	5.4
983	26.9	3.2	4.2	0	18.3	0.60	301.5	230.8	5.3
978	26.4	3.4	4.3	1.8	18.1	0.60	301.5	232.3	5.5
972	25.9	3.0	4.3	3.0	18.2	0.60	301.4	228.6	5.3
967	25.3	3.2	4.4	0	18.0	0.60	301.4	229.3	5.5
961	24.7	3.2	4.4	0	18.1	0.50	301.3	230.1	5.4
955	24.2	3.4	4.5	3.3	18.0	0.50	301.3	231.4	5.6
949	23.7	4.0	4.5	2.1	18.0	0.65	301.3	235.8	6.0
943	23.4	4.6	4.4	0	16.3	0.40	301.5	239.9	6.4
936	23.0	5.1	4.6	0	15.8	0.30	301.8	241.8	6.8
929	22.5	5.3	4.7	0	15.5	0.20	302.0	242.3	7.0
921	22.2	5.1	4.8	2.9	15.4	0.20	302.3	240.9	7.0
913	21.7	5.3	4.2	3.2	14.9	0.20	302.6	245.0	6.8
892	20.5	4.9	2.3	2.2	14.2	0.20	303.5	258.7	5.4
865	19.0	5.3	2.0	0	13.8	0.20	304.6	262.9	5.6
834	17.1	6.3	3.3	0	13.2	0.20	305.8	256.7	7.1
800	15.2	6.7	4.3	0	12.6	0.20	307.3	251.4	8.0
764	13.0	7.2	4.8	0	11.8	0.20	309.0	250.1	8.6
725	10.8	7.1	5.4	7.8	10.9	0.20	311.3	247.0	8.9
685	8.4	6.0	6.0	7.3	9.6	0.20	313.8	238.8	8.5
641	5.3	5.1	5.8	7.0	8.3	0.20	316.3	235.0	7.7
595	2.1	4.7	5.1	7.0	6.8	0.20	319.4	236.3	7.0
547	-1.8	4.0	5.1	0	5.2	0.20	322.5	232.1	6.5
499	-4.8	1.3	6.2	-7.0	5.4	0.20	327.4	205.6	6.3
450	-9.2	1.0	3.6	0	2.9	0.20	331.7	209.6	3.7
400	-15.1	-0.33	3.1	0	2.2	0.20	335.2	187.7	3.1
351	-21.9	1.4	1.3	7.0	1.1	0.20	338.9	241.0	1.9
303	-30.4	2.3	0	0	0.72	0.20	341.6	283.9	2.3
258	-39.6	1.7	0	-12.9	0.36	0.20	344.0	283.9	1.7
219	-48.7	-0.88	-5.0	-14.1	0.14	0.20	346.4	23.8	5.1
182	-60.5	-2.5	0	2.9	3E-2	0.20	346.2	103.9	2.5
137	-75.1	-2.0	-2.9	-2.0	1E-2	0.20	349.5	48.4	3.5
88	-64.4	-12.1	-3.2	0.46	1E-2	0.20	418.8	89.1	12.5
63	-59.3	-13.1	-1.2	-1E-1	1E-2	0.20	472.3	98.7	13.2
38	-45.3	-26.5	-5.0	-0.70	2E-2	0.20	582.4	93.3	27.0



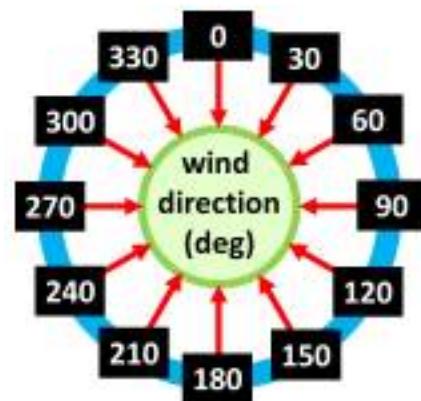
Meteorological Profile: hysplit.t00z.namsf

File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 13 19 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
								hPa						
1010	0	1010	0	29.2	79.1	4.1	5.4	1010	255	31.0	0.25	0	629	852

	TEMP	UWND	VWND	WWND	SPHU	TKEN	TPOT	WDIR	WSPD
	oC	m/s	m/s	mb/h	g/kg		oK	deg	m/s
1008	28.4	5.5	5.0	1.8	18.6	0.43	300.9	241.5	7.4
1003	28.0	5.4	5.1	6.2	18.5	0.43	300.8	240.9	7.4
998	27.6	5.4	5.4	6.2	18.4	0.46	300.9	239.2	7.6
994	27.1	5.4	5.4	11.6	18.4	0.43	300.8	238.7	7.6
989	26.7	5.3	5.5	10.5	18.3	0.35	300.8	237.9	7.6
983	26.3	5.1	5.6	15.2	18.2	0.35	300.9	236.3	7.5
978	25.8	5.1	5.6	15.4	18.2	0.35	300.9	235.9	7.5
973	25.2	5.3	5.7	19.1	18.1	0.45	300.7	237.0	7.7
967	24.8	5.3	5.6	23.2	17.9	0.35	300.8	237.5	7.7
962	24.4	5.0	5.7	24.6	17.8	0.20	300.9	235.4	7.6
956	23.8	5.1	5.8	24.6	17.6	0.50	300.8	235.2	7.7
950	23.1	5.2	5.8	28.1	17.5	0.50	300.7	235.7	7.8
943	22.7	5.3	6.2	31.6	16.6	0.40	300.8	234.6	8.2
937	22.7	5.7	6.6	31.6	15.6	0.30	301.4	234.9	8.7
930	22.4	6.0	6.3	31.6	15.3	0.30	301.8	237.3	8.7
922	22.1	5.7	6.3	35.2	15.2	0.30	302.2	235.9	8.5
913	21.6	5.3	5.5	35.2	15.0	0.20	302.5	237.6	7.7
892	20.5	4.2	3.8	38.7	14.5	0.20	303.4	241.6	5.7
865	19.0	4.1	3.4	35.6	14.0	0.20	304.5	244.2	5.3
834	17.3	4.7	4.2	28.9	13.4	0.20	305.8	242.4	6.3
801	15.3	5.4	5.0	18.9	12.8	0.20	307.4	241.0	7.4
764	13.2	5.8	5.5	7.0	12.3	0.20	309.2	240.5	8.0
726	11.0	6.3	5.7	0	11.5	0.20	311.4	241.7	8.5
685	8.5	6.7	5.7	-7.0	10.4	0.20	313.9	243.4	8.8
641	5.5	6.2	5.6	-14.1	9.2	0.20	316.4	242.2	8.4
595	2.1	5.9	4.5	-7.0	7.5	0.20	319.3	246.6	7.4
547	-2.0	5.3	3.9	-8.1	5.8	0.20	322.2	247.6	6.5
499	-4.8	2.0	5.1	-6.4	5.4	0.20	327.4	215.5	5.5
450	-9.7	0.29	6.0	-2.6	3.1	0.20	331.1	196.6	6.0
401	-15.2	-1.4	4.0	-7.0	2.2	0.20	335.1	174.5	4.3
351	-21.9	1.2	0.91	0	1.1	0.20	338.9	247.7	1.5
303	-30.3	2.6	-2.4	3.5	0.73	0.20	341.7	326.6	3.5
258	-39.7	2.7	0	-3.5	0.35	0.20	343.8	283.9	2.7
219	-48.8	-0.65	-5.5	-1.8	0.14	0.20	346.3	20.6	5.6
182	-60.4	-2.0	0.77	7.6	3E-2	0.20	346.4	124.8	2.2
137	-75.4	-2.3	-3.5	-2.7	1E-2	0.20	348.9	47.2	4.2
88	-64.9	-12.9	-1.5	0.27	1E-2	0.20	417.8	97.3	13.0
63	-58.8	-12.6	-2.7	-1E-1	1E-2	0.20	473.4	91.8	12.8
38	-45.8	-26.5	-4.1	0.46	2E-2	0.20	581.0	95.1	26.8



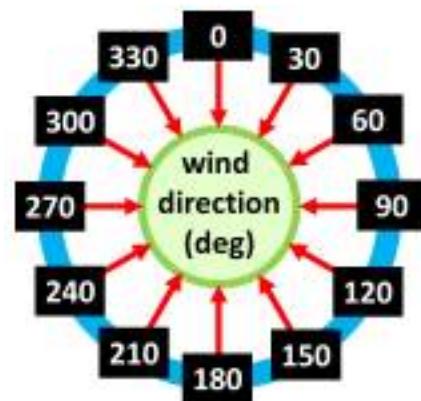
Meteorological Profile: hysplit.t00z.namsf

File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 13 20 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
								hPa						
1010	0	1010	1E-3	28.6	83.4	4.7	5.5	1010	272	45.1	0.28	0	38.5	763

	TEMP	UWND	VWND	WWND	SPHU	TKEN	TPOT	WDIR	WSPD
	oC	m/s	m/s	mb/h	g/kg		oK	deg	m/s
1008	27.5	6.5	4.9	6.1	18.8	0.57	300.0	246.7	8.2
1003	27.1	6.5	5.0	8.8	18.7	0.63	300.0	246.3	8.2
998	26.7	6.2	5.3	14.1	18.5	0.60	300.0	243.1	8.2
993	26.3	6.1	5.4	17.6	18.5	0.63	300.0	242.7	8.2
988	25.8	6.6	5.5	21.1	18.4	0.60	300.0	244.1	8.5
983	25.4	6.6	5.7	24.6	18.4	0.72	300.0	242.8	8.7
978	24.8	6.1	5.8	29.2	18.3	0.60	299.9	240.5	8.4
973	24.3	6.2	5.9	29.7	18.0	0.80	299.9	240.2	8.6
967	23.8	6.2	6.2	33.4	17.5	0.70	299.8	239.0	8.7
961	23.3	6.4	6.2	35.2	16.7	0.45	299.8	239.6	8.9
956	23.4	6.3	6.6	36.9	16.3	0	300.4	237.5	9.1
949	23.0	6.4	7.1	42.2	15.9	0.25	300.6	235.7	9.5
943	22.7	6.8	7.3	41.2	15.8	0.25	300.9	236.7	10.0
936	22.5	6.9	7.6	38.7	15.6	0.15	301.3	236.1	10.3
929	22.1	6.9	7.5	38.2	15.5	0.15	301.5	236.7	10.2
922	21.7	7.1	6.8	38.7	15.5	0.20	301.9	240.3	9.8
913	21.3	6.7	6.1	37.6	15.2	0.20	302.3	241.7	9.1
892	20.3	5.1	5.1	31.6	14.8	0.20	303.2	239.0	7.2
865	19.0	4.3	4.5	22.0	14.3	0.20	304.5	237.3	6.2
834	17.3	4.5	4.9	10.9	13.8	0.20	305.9	237.0	6.6
800	15.4	5.0	5.4	-6.2	13.3	0.20	307.5	236.7	7.4
764	13.2	5.8	5.7	-28.1	12.6	0.20	309.3	239.5	8.2
725	11.2	5.9	5.8	-49.2	11.8	0.20	311.7	239.7	8.2
685	8.9	6.7	5.6	-63.3	10.8	0.20	314.3	244.0	8.7
641	6.1	6.8	5.6	-77.3	9.7	0.20	317.1	244.5	8.8
595	2.9	6.5	4.5	-63.3	8.3	0.20	320.2	249.3	7.8
547	-1.5	5.3	3.2	-35.2	6.6	0.20	322.8	252.8	6.2
499	-5.3	3.9	5.5	-14.1	5.3	0.20	326.8	229.3	6.8
450	-10.0	1.3	6.1	0	4.0	0.20	330.6	206.1	6.2
400	-15.2	-1.2	5.1	0	2.2	0.20	335.1	180.7	5.3
351	-21.8	0.61	1.7	0	1.1	0.20	339.0	213.9	1.8
303	-30.1	1.5	-2.3	14.1	0.71	0.20	342.1	340.7	2.7
258	-39.6	1.8	-0.87	5.5	0.33	0.20	344.1	310.0	2.0
219	-48.6	-1.2	-4.4	7.3	0.13	0.20	346.6	28.7	4.5
182	-59.7	-0.77	1.3	10.5	3E-2	0.20	347.4	164.1	1.5
137	-76.0	-1.3	-3.7	-1.4	1E-2	0.20	347.9	33.6	4.0
88	-64.9	-13.2	-2.0	0.71	1E-2	0.20	417.7	95.4	13.3
63	-58.2	-12.0	-3.3	0.25	1E-2	0.20	474.7	88.5	12.5
38	-45.9	-26.0	-4.7	0.35	3E-2	0.20	580.9	93.7	26.4



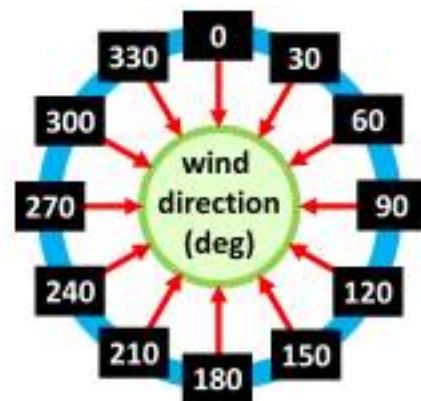
Meteorological Profile: hysplit.t00z.namsf

File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 13 21 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
								hPa						
1010	0	1009	3E-3	28.4	84.0	4.7	5.0	1010	252	44.0	0.26	0	25.9	752

	TEMP	UWND	VWND	WWND	SPHU	TKEN	TPOT	WDIR	WSPD
	oC	m/s	m/s	mb/h	g/kg		oK	deg	m/s
1008	27.4	6.1	4.7	5.3	18.9	0.47	299.9	246.3	7.7
1003	27.0	6.1	4.8	10.5	18.7	0.47	299.9	245.7	7.7
998	26.5	6.0	4.8	14.1	18.7	0.45	299.8	245.2	7.7
993	26.1	6.0	5.1	17.6	18.5	0.41	299.8	243.3	7.9
988	25.9	5.9	5.2	21.1	18.5	0.35	300.0	242.7	7.9
983	25.4	6.4	5.5	24.6	18.4	0.35	300.0	243.4	8.4
978	24.8	6.1	5.5	28.1	18.2	0.45	299.9	241.9	8.3
973	24.7	6.1	5.8	31.6	17.5	0.45	300.3	240.1	8.4
967	24.2	6.3	6.1	35.2	17.2	0.18	300.2	239.6	8.8
962	23.8	6.1	6.1	35.2	16.9	0.20	300.3	239.1	8.6
956	23.4	6.3	6.3	38.4	16.7	0.20	300.4	238.6	8.9
950	23.2	6.2	6.7	41.3	16.3	0.22	300.8	236.6	9.1
943	22.9	6.3	6.8	42.0	16.1	0.25	301.1	236.5	9.3
936	22.6	6.8	7.1	44.0	15.9	0.25	301.4	237.6	9.8
929	22.4	7.1	7.1	44.0	15.5	0.25	301.8	239.0	10.0
922	22.0	7.3	6.4	44.4	15.5	0.15	302.1	242.7	9.7
913	21.6	7.1	5.9	40.5	15.4	0.20	302.5	244.2	9.2
892	20.5	6.1	5.4	38.7	15.1	0.20	303.4	241.9	8.2
865	19.1	5.3	5.0	35.2	14.6	0.20	304.7	240.2	7.3
834	17.5	5.1	4.9	27.0	14.1	0.20	306.1	240.2	7.1
800	15.5	5.8	4.9	14.0	13.5	0.20	307.6	243.4	7.6
764	13.3	5.9	5.1	0	12.8	0.20	309.4	243.0	7.8
726	11.2	6.5	5.2	-21.1	11.8	0.20	311.7	245.3	8.3
685	8.8	6.7	5.0	-42.2	10.8	0.20	314.3	247.4	8.3
641	6.0	6.3	4.7	-49.2	9.5	0.20	317.1	247.3	7.9
595	2.8	6.1	4.0	-42.2	8.2	0.20	320.2	250.7	7.3
547	-1.2	4.0	3.2	-7.0	6.7	0.20	323.1	245.2	5.1
499	-5.3	2.9	6.5	14.1	4.5	0.20	326.8	217.6	7.1
450	-9.9	1.2	7.2	7.0	3.2	0.20	330.8	203.4	7.3
401	-15.2	-1.7	5.3	0	2.2	0.20	335.2	175.9	5.6
351	-21.7	-0.27	1.6	0	1.1	0.20	339.3	184.4	1.6
303	-29.7	0.47	-1.9	7.0	0.62	0.20	342.6	359.8	2.0
258	-39.6	1.1	-0.69	0	0.30	0.20	344.1	316.1	1.3
219	-48.7	-1.8	-3.9	-3.5	0.13	0.20	346.5	38.5	4.3
182	-59.4	-0.41	0.99	-4.1	3E-2	0.20	348.0	171.6	1.1
137	-76.0	-1.6	-3.7	-1.3	1E-2	0.20	347.9	36.7	4.1
88	-65.0	-13.6	-1.4	1.1	1E-2	0.20	417.6	97.9	13.6
63	-57.4	-11.8	-4.1	0.83	1E-2	0.20	476.4	84.7	12.5
38	-45.9	-25.3	-5.0	0.39	3E-2	0.20	580.9	92.6	25.8



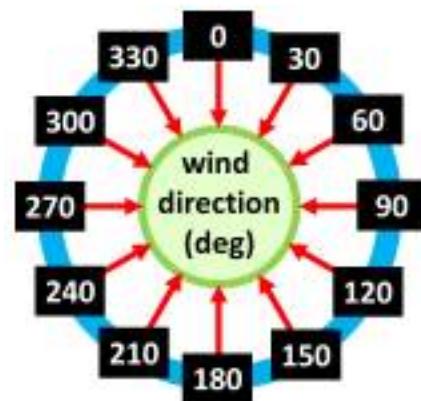
Meteorological Profile: hysplit.t00z.nam6f

File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 13 22 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
								hPa						
1009	0	1009	5E-4	29.5	78.1	4.3	4.7	1009	236	27.3	0.23	0	24.6	827

	TEMP	UWND	VWND	WWND	SPHU	TKEN	TPOT	WDIR	WSPD
	oC	m/s	m/s	mb/h	g/kg		oK	deg	m/s
1007	28.7	5.3	5.1	1.0	18.5	0.48	301.3	240.4	7.3
1002	28.3	5.3	5.4	2.6	18.4	0.55	301.2	238.7	7.6
997	27.6	5.3	5.4	7.0	18.3	0.55	301.0	238.1	7.6
992	27.4	5.2	5.5	6.0	18.3	0.55	301.2	237.6	7.6
987	26.7	5.2	5.5	10.5	18.3	0.55	301.0	237.3	7.6
982	26.3	5.5	5.5	8.8	18.2	0.55	301.0	238.7	7.8
977	25.9	5.1	5.5	14.1	18.2	0.55	301.1	236.8	7.6
972	25.4	5.2	5.7	14.1	18.2	0.55	301.0	236.6	7.7
966	25.0	5.4	5.8	14.1	18.0	0.55	301.1	236.7	7.9
961	24.4	5.4	5.9	18.2	17.9	0.55	301.0	236.3	8.0
955	24.2	5.4	6.0	18.4	17.1	0.55	301.3	235.8	8.1
949	23.5	5.2	6.1	21.8	17.0	0.55	301.1	234.5	8.0
942	23.3	5.3	6.0	22.6	16.4	0.30	301.6	235.2	8.0
936	23.1	5.7	6.4	22.0	15.8	0.20	301.9	235.3	8.6
929	22.8	6.9	6.6	21.9	15.6	0.20	302.3	240.2	9.5
921	22.3	7.1	5.8	22.8	15.3	0.20	302.5	244.6	9.2
912	22.0	7.1	5.8	19.2	15.1	0.20	303.0	244.5	9.1
891	20.8	6.3	5.3	18.8	14.8	0.20	303.9	243.8	8.3
864	19.4	5.7	4.8	20.8	14.4	0.20	305.0	243.3	7.4
833	17.7	5.8	4.3	20.0	13.7	0.20	306.4	247.6	7.2
800	15.8	6.3	3.9	17.6	13.1	0.20	308.1	251.7	7.4
764	13.6	6.9	4.2	14.1	12.3	0.20	309.7	252.4	8.1
725	11.0	6.8	4.8	0	11.7	0.20	311.6	248.5	8.3
684	8.7	6.5	4.8	-7.0	10.5	0.20	314.2	247.1	8.1
641	5.9	5.7	4.6	-21.1	9.5	0.20	317.0	244.9	7.3
594	2.7	4.8	3.9	-14.1	8.1	0.20	320.1	244.2	6.2
547	-1.5	2.8	3.6	0	5.9	0.20	322.8	231.5	4.6
498	-4.8	2.7	7.4	7.0	4.3	0.20	327.5	213.6	7.9
450	-9.9	0.91	7.9	7.0	3.2	0.20	330.9	200.4	8.0
400	-15.3	-1.4	5.7	0	2.2	0.20	335.1	179.6	5.9
351	-21.9	-0.39	2.7	-2.6	1.1	0.20	339.1	185.7	2.8
303	-29.6	0.39	-1.3	4.7	0.59	0.20	342.9	356.8	1.3
258	-39.5	1.3	-1.5	3.9	0.29	0.20	344.2	333.1	2.0
219	-48.8	-2.3	-3.2	0	0.13	0.20	346.4	48.8	3.9
182	-59.5	-0.17	0	2.6	3E-2	0.20	347.9	103.9	0.2
137	-75.5	-2.5	-2.8	1.7	1E-2	0.20	348.8	55.3	3.7
88	-65.2	-14.2	-0.23	-0.77	1E-2	0.20	417.3	102.9	14.2
63	-57.8	-12.1	-4.8	-0.22	1E-2	0.20	475.7	82.4	13.0
38	-46.2	-24.9	-5.4	-0.68	3E-2	0.20	580.3	91.7	25.5

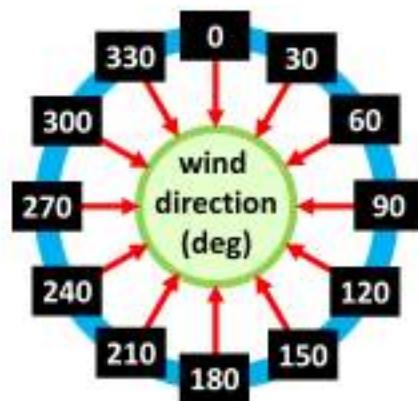


Meteorological Profile: hysplit.t00z.namsf

File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 13 23 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
								hPa						
1009	0	1008	0	30.2	75.8	4.7	5.4	1009	235	16.8	0.24	0	293	1147
	TEMP	UWND	VWND	WWND	SPHU	TKEN		TPOT	WDIR	WSPD				
	oC	m/s	m/s	mb/h	g/kg			oK	deg	m/s				
1007	29.4	5.1	6.4	-2.4	18.8	0.54		302.0	232.8	8.2				
1002	29.0	5.1	6.4	-3.5	18.7	0.58		302.0	232.3	8.2				
997	28.6	5.3	6.4	-4.6	18.7	0.66		302.0	233.3	8.3				
993	28.1	5.3	6.5	-5.3	18.6	0.65		301.9	233.1	8.4				
988	27.7	5.3	6.5	-4.5	18.6	0.65		302.0	233.2	8.4				
982	27.2	5.5	6.6	-7.5	18.6	0.68		301.8	233.5	8.6				
977	26.8	5.2	6.4	-5.6	18.5	0.68		302.0	232.7	8.3				
972	26.2	5.2	6.5	-6.5	18.5	0.68		301.8	232.6	8.4				
966	25.8	5.4	6.6	-6.3	18.5	0.68		301.9	233.0	8.5				
961	25.2	5.4	6.5	-6.6	18.5	0.68		301.8	233.5	8.4				
955	24.6	5.4	6.5	-8.4	18.5	0.68		301.7	233.5	8.5				
949	24.1	5.3	6.6	-6.9	18.4	0.68		301.8	232.8	8.5				
942	23.5	5.2	6.6	-8.7	18.4	0.68		301.7	232.2	8.4				
936	23.1	5.4	6.7	-9.4	17.4	0.55		301.9	232.7	8.7				
929	22.7	5.6	6.9	-9.9	16.7	0.18		302.2	232.9	8.9				
921	22.4	6.7	6.3	-9.0	16.1	0.20		302.6	240.6	9.2				
912	21.9	6.9	5.8	-8.2	15.8	0.20		302.9	243.6	9.0				
891	20.9	6.2	5.7	-8.9	15.0	0.20		303.9	241.4	8.5				
864	19.4	5.5	5.0	-8.1	14.2	0.20		305.1	241.2	7.4				
834	17.7	5.1	4.4	-5.7	13.3	0.20		306.5	243.4	6.7				
800	15.9	5.2	3.8	0	12.1	0.20		308.1	247.4	6.4				
764	13.8	5.4	4.2	3.7	11.0	0.20		310.0	245.7	6.8				
725	12.0	5.5	4.8	0	9.9	0.20		312.6	242.9	7.3				
684	9.2	5.2	4.8	7.0	8.9	0.20		314.7	240.9	7.1				
641	5.7	5.0	4.8	7.0	8.0	0.20		316.8	239.9	6.9				
595	2.2	3.8	4.7	7.0	7.0	0.20		319.5	233.0	6.0				
547	-0.93	3.0	4.9	0	4.8	0.20		323.5	225.4	5.8				
498	-5.1	2.9	6.8	0	4.6	0.20		327.1	216.9	7.3				
450	-9.8	1.2	7.0	0	3.1	0.20		331.0	203.7	7.1				
400	-15.3	-1.5	5.8	-3.7	1.8	0.20		335.1	179.6	6.0				
351	-22.2	-0.34	3.8	-7.0	1.1	0.20		338.6	188.6	3.8				
303	-29.6	-0.30	-1.6	3.5	0.59	0.20		342.8	24.5	1.6				
258	-39.5	0.58	-2.4	7.0	0.25	0.20		344.3	0.4	2.5				
219	-48.8	-2.6	-4.0	3.5	0.12	0.20		346.4	47.0	4.8				
182	-59.5	-0.43	-1.4	0	3E-2	0.20		347.9	31.2	1.4				
137	-74.7	-4.2	-2.4	1.5	1E-2	0.20		350.3	73.9	4.9				
88	-64.9	-13.3	0.46	-0.17	1E-2	0.20		417.9	105.8	13.3				
63	-58.4	-12.2	-6.2	-0.22	1E-2	0.20		474.5	76.9	13.7				
38	-46.1	-24.7	-6.0	0.36	3E-2	0.20		580.6	90.3	25.4				



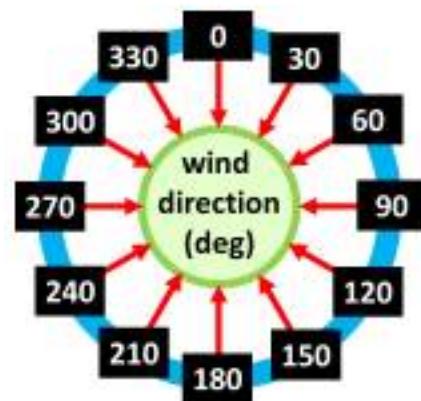
Meteorological Profile: hysplit.t00z.nam6f

File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 14 0 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
								hPa						
1008	0	1009	1E-3	30.3	75.0	4.3	5.1	1008	226	15.8	0.24	0	41.9	955

	TEMP	UWND	VWND	WWND	SPHU	TKEN	TPOT	WDIR	WSPD
	oC	m/s	m/s	mb/h	g/kg		oK	deg	m/s
1006	29.5	5.0	6.4	-2.4	18.7	0.50	302.1	231.8	8.2
1001	29.1	5.0	6.2	-3.7	18.6	0.58	302.2	232.3	8.0
996	28.6	5.0	6.3	-5.5	18.6	0.59	302.1	232.2	8.0
991	28.2	5.2	6.3	-5.3	18.6	0.58	302.2	233.3	8.2
986	27.8	5.1	6.4	-5.2	18.5	0.55	302.1	232.7	8.2
981	27.5	4.9	6.4	-4.7	18.5	0.55	302.3	231.2	8.1
976	26.9	5.0	6.5	-5.5	18.5	0.55	302.1	231.5	8.2
971	26.3	5.2	6.4	-7.0	18.4	0.55	302.0	233.0	8.2
965	25.9	4.7	6.5	-7.0	18.4	0.58	302.1	230.0	8.0
959	25.3	4.8	6.5	-6.9	18.4	0.70	302.0	229.9	8.1
954	24.9	4.7	6.6	-8.2	18.2	0.70	302.1	229.3	8.1
948	24.2	5.1	6.5	-7.9	18.3	0.70	302.0	232.3	8.3
941	23.6	5.0	6.5	-6.6	18.0	0.70	302.0	231.1	8.2
934	23.0	5.1	6.6	-7.4	18.0	0.70	302.0	231.3	8.3
927	22.8	5.8	6.9	-10.6	16.1	0.45	302.4	233.9	9.0
920	22.4	6.6	6.5	-9.7	15.6	0.20	302.7	239.3	9.3
911	21.8	6.3	6.1	-7.3	15.4	0.20	303.0	240.0	8.8
890	20.7	5.5	6.1	-9.2	14.6	0.20	303.8	235.8	8.2
863	19.4	4.9	5.9	-14.1	13.7	0.20	305.1	233.4	7.7
832	17.7	4.5	5.4	-7.0	12.7	0.20	306.6	233.7	7.0
799	15.9	4.2	4.4	-7.0	11.5	0.20	308.3	237.7	6.1
763	13.9	4.7	4.2	-7.0	10.4	0.20	310.2	242.0	6.3
724	12.0	4.2	5.0	-7.0	9.1	0.20	312.7	233.7	6.5
683	9.3	4.2	4.9	-7.0	7.9	0.20	315.0	234.5	6.4
640	6.2	4.3	5.0	-7.0	6.5	0.20	317.4	234.4	6.6
594	2.8	3.9	4.0	0	5.3	0.20	320.3	238.1	5.6
546	-1.1	3.4	4.3	0	4.1	0.20	323.4	232.1	5.5
498	-5.1	3.1	5.7	0	4.9	0.42	327.2	222.5	6.5
449	-9.7	0	6.5	7.0	3.0	0.20	331.2	193.9	6.5
400	-15.1	-2.3	6.4	0	1.8	0.20	335.4	174.4	6.8
350	-22.2	-1.6	4.1	0	1.1	0.20	338.7	172.6	4.4
302	-29.6	-0.73	-2.2	0	0.56	0.20	343.0	32.4	2.3
258	-39.3	-0.26	-4.3	0	0.20	0.20	344.6	17.3	4.3
219	-48.7	-3.2	-4.5	1.9	0.11	0.20	346.6	49.0	5.6
182	-59.5	-0.84	-2.9	0	4E-2	0.20	348.0	29.9	3.1
137	-74.0	-5.4	-1.3	1.4	1E-2	0.20	351.5	90.7	5.5
87	-65.3	-11.6	1.5	-1.5	1E-2	0.20	417.2	111.2	11.7
62	-59.3	-13.4	-7.1	-0.72	1E-2	0.20	472.6	75.9	15.2
37	-45.9	-24.6	-6.4	0.38	3E-2	0.20	581.3	89.2	25.4



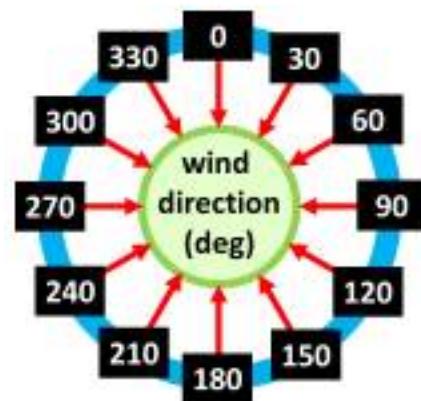
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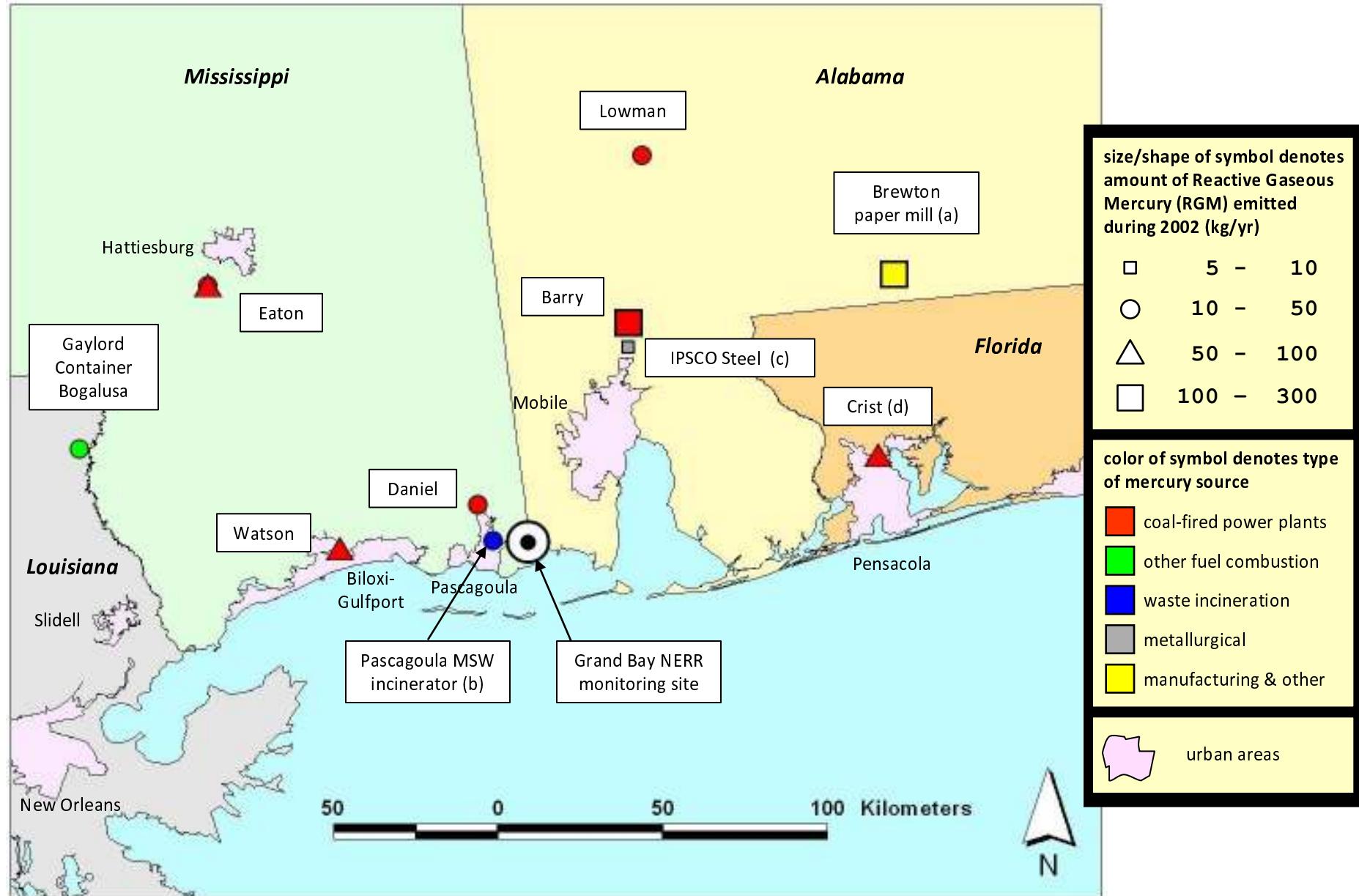
File start time : 10 8 13 0 0
 File ending time: 10 8 15 0 0

Profile Time: 10 8 14 1 0
 Profile Location: 30.41 -88.40 (335,110)

	SHGT	MSLP	TPP3	T02M	RH2M	U10M	V10M	PRSS	LHTF	SHTF	USTR	RGHS	DSWF	PBLH
								hPa						
1008	0	1009	1E-3	30.3	75.5	4.0	5.3	1008	226	15.6	0.23	0	0	1147

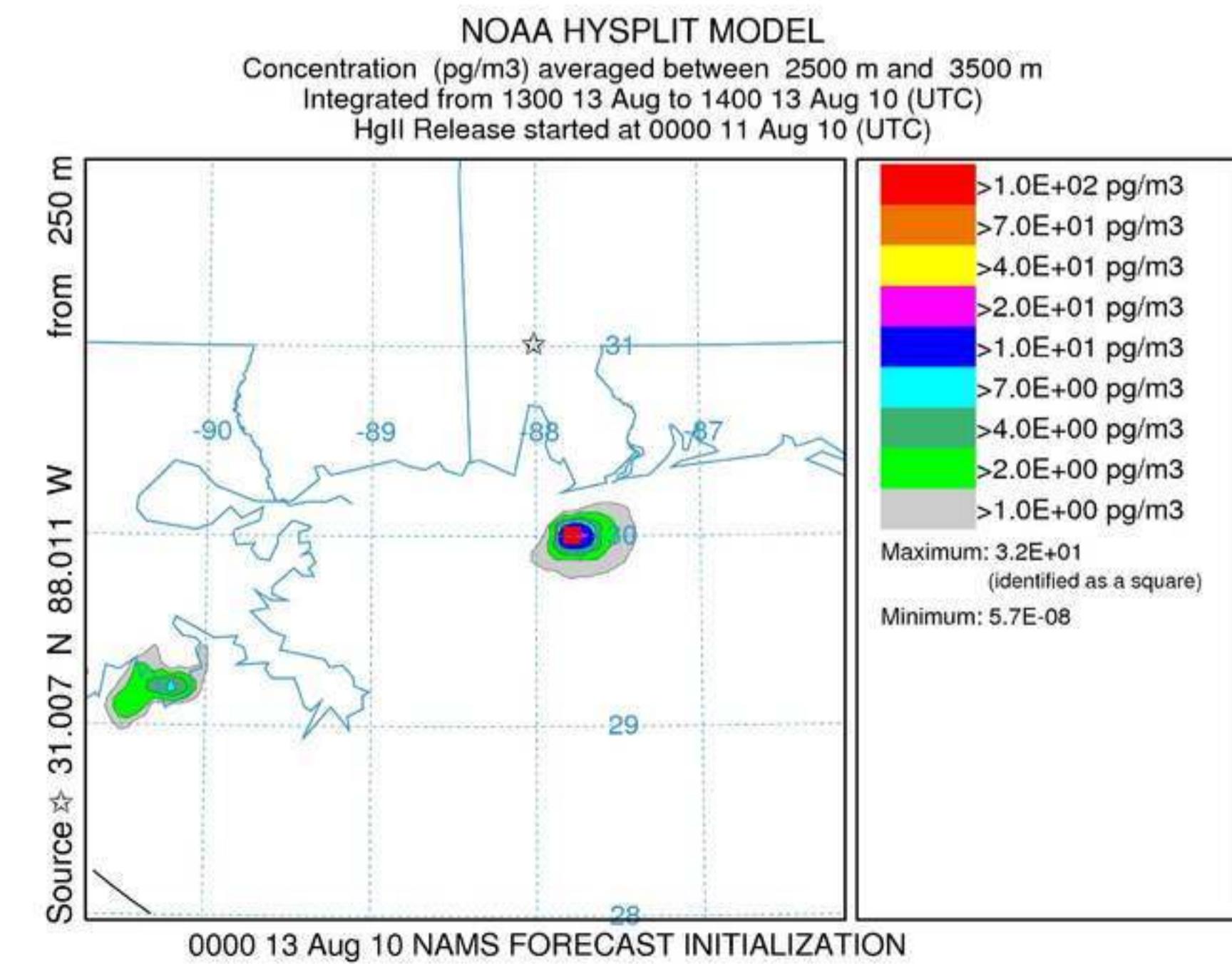
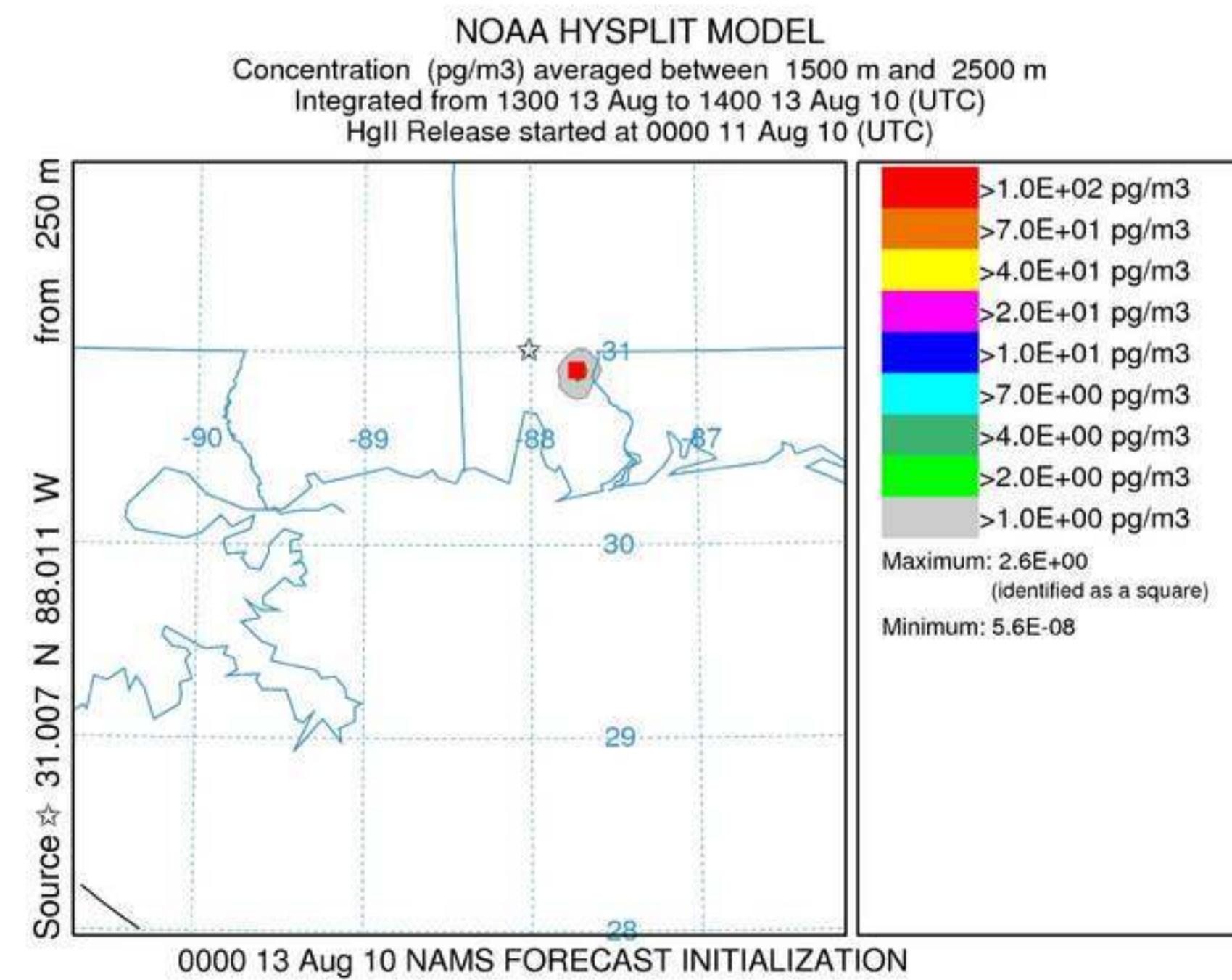
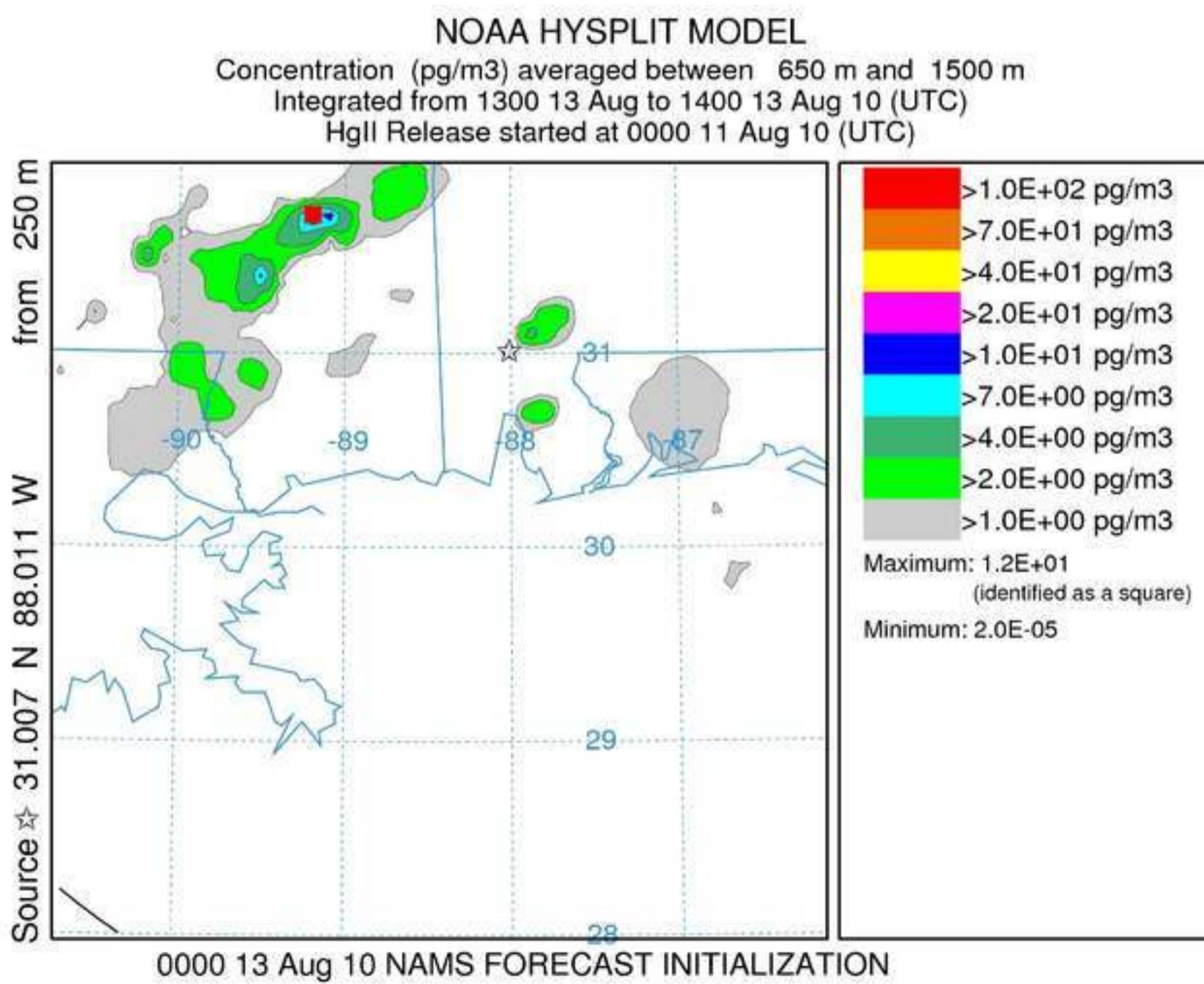
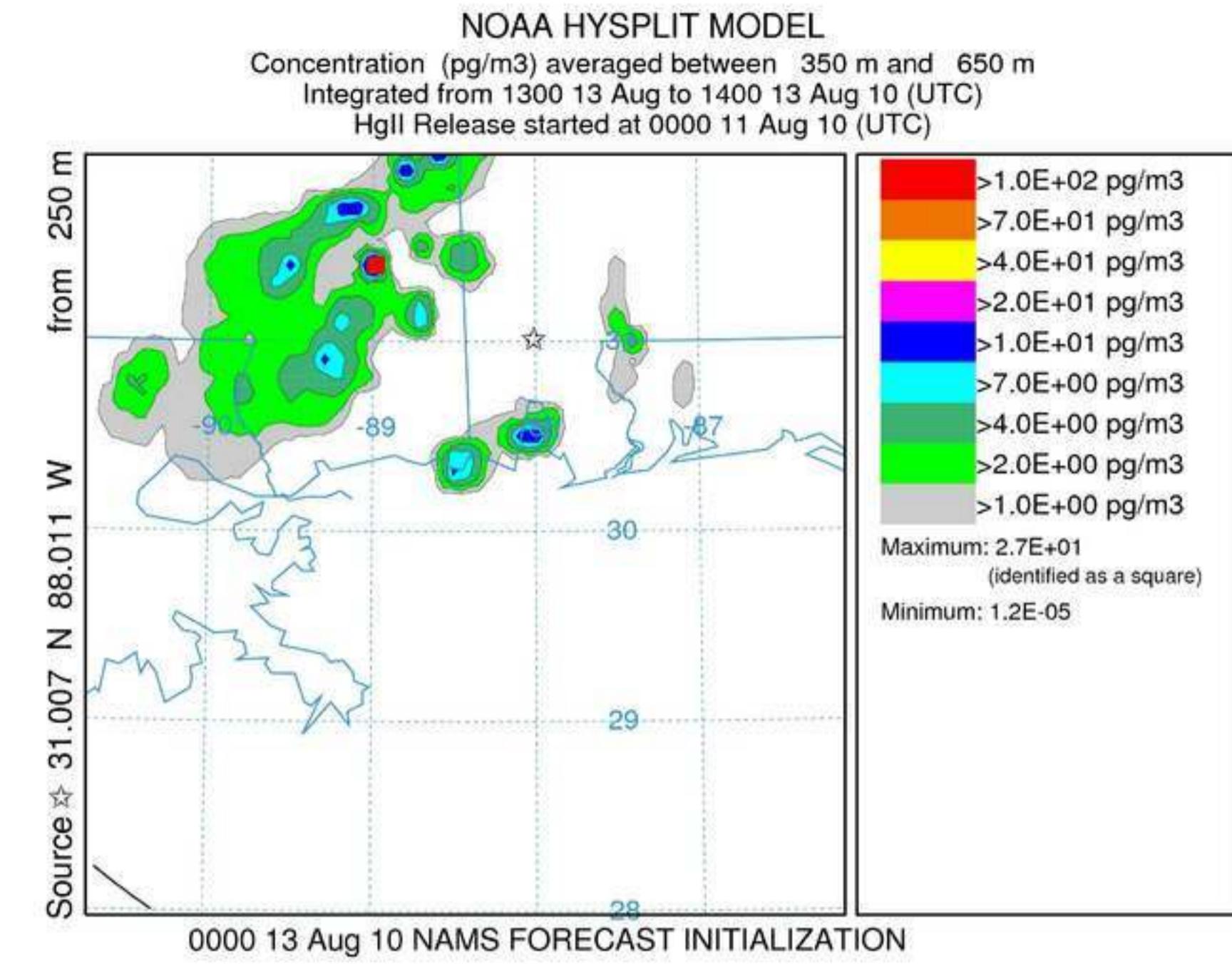
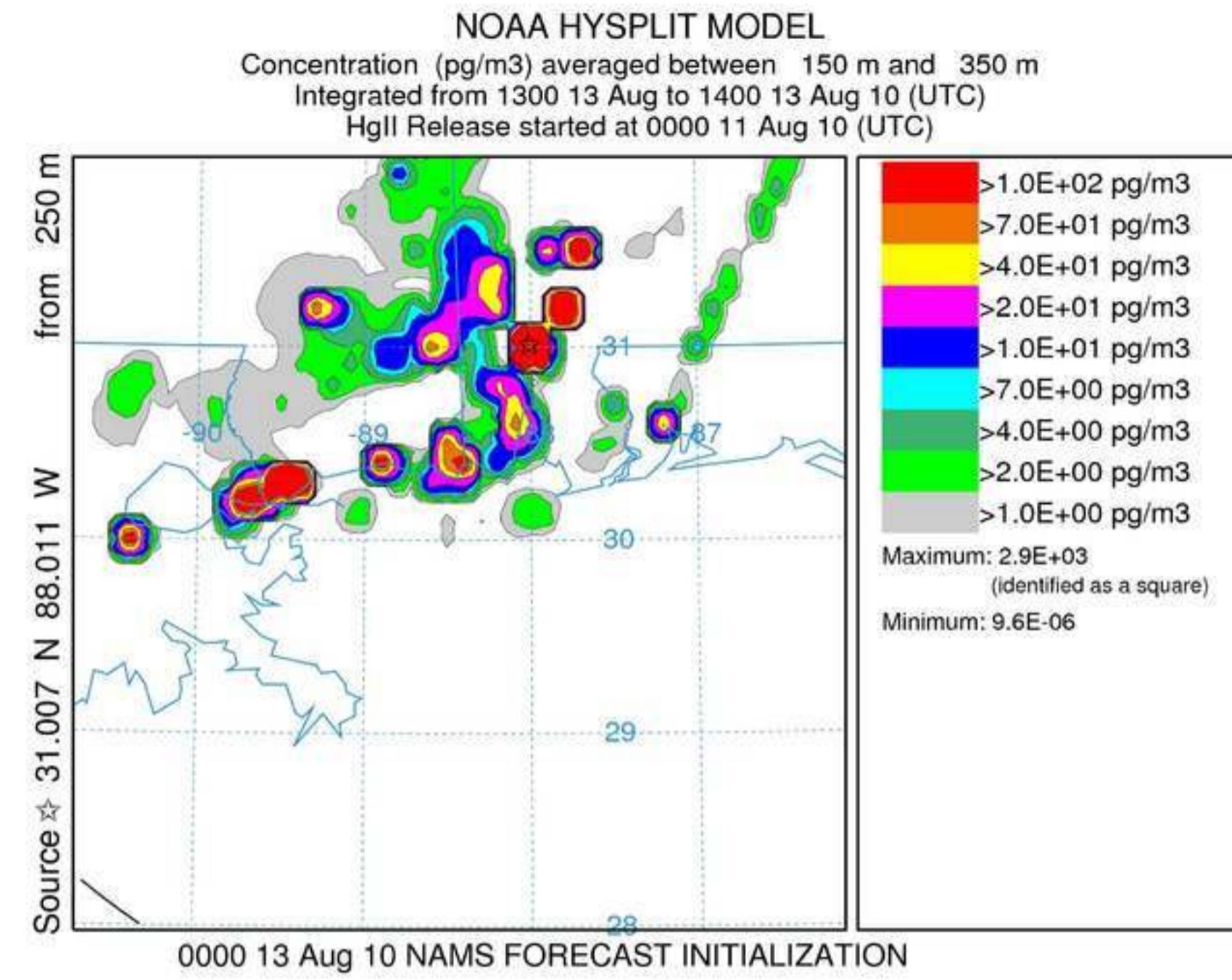
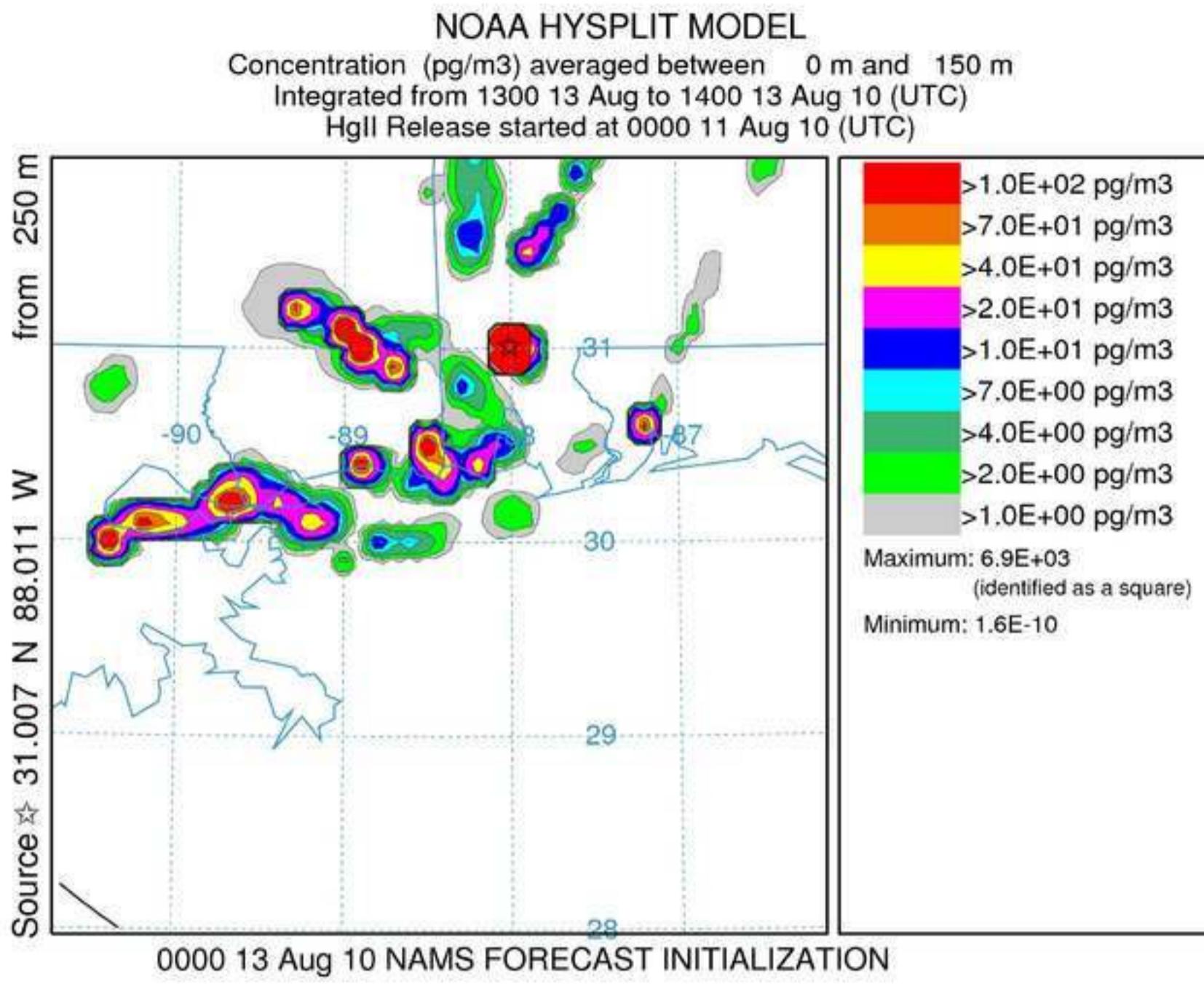
	TEMP	UWND	VWND	WWND	SPHU	TKEN	TPOT	WDIR	WSPD
	oC	m/s	m/s	mb/h	g/kg		oK	deg	m/s
1006	29.5	4.7	6.6	-1.8	18.8	0.54	302.2	229.6	8.1
1001	29.2	4.7	6.5	-5.3	18.7	0.63	302.2	229.6	8.0
996	28.7	4.4	6.5	-3.5	18.7	0.63	302.2	228.1	7.9
991	28.3	4.7	6.6	-7.0	18.6	0.67	302.2	229.2	8.1
986	27.9	4.6	6.6	-7.0	18.5	0.67	302.2	228.5	8.1
981	27.3	4.6	6.7	-5.3	18.5	0.67	302.1	228.2	8.1
976	26.9	4.7	6.8	-7.4	18.4	0.67	302.2	228.7	8.2
971	26.3	4.8	6.6	-6.0	18.3	0.70	302.0	229.9	8.2
965	26.0	4.4	6.7	-7.5	18.4	0.70	302.2	227.3	8.0
960	25.3	4.4	6.8	-6.7	18.4	0.83	302.0	226.7	8.1
954	24.7	4.9	6.7	-7.1	18.3	0.83	302.0	230.0	8.3
948	24.3	4.5	6.7	-5.7	18.2	0.83	302.1	227.6	8.1
941	23.7	4.7	6.8	-6.2	18.0	0.70	302.0	228.4	8.3
935	23.0	4.7	7.0	-9.7	17.9	0.70	301.9	227.8	8.4
928	22.3	4.8	7.0	-7.4	17.2	0.45	301.9	228.1	8.5
920	22.2	5.9	7.0	-10.0	15.9	0.20	302.5	234.3	9.2
911	21.7	5.9	6.4	-10.6	15.3	0.20	302.8	236.9	8.7
890	20.5	5.2	6.3	-8.7	14.6	0.20	303.7	233.0	8.2
863	19.2	4.9	6.2	-14.1	13.8	0.20	304.9	232.1	7.9
833	17.5	4.3	5.8	-14.1	12.8	0.20	306.3	230.7	7.2
799	15.6	3.7	5.1	-14.1	11.5	0.20	308.0	230.3	6.3
763	13.6	3.8	4.2	-11.6	10.3	0.20	309.8	235.8	5.6
724	11.6	4.0	5.0	-14.1	9.1	0.20	312.3	232.7	6.4
683	9.0	4.0	4.8	-14.1	7.9	0.20	314.6	233.6	6.2
640	6.0	3.7	4.7	-14.1	6.6	0.20	317.2	232.5	5.9
594	2.7	4.1	3.8	-14.1	5.4	0.20	320.2	240.9	5.6
546	-0.87	3.6	3.1	-14.1	4.2	0.20	323.7	242.9	4.8
498	-5.1	3.3	5.0	0	4.4	0.20	327.3	227.4	6.1
449	-9.7	-0.48	6.3	0	3.1	0.20	331.3	189.5	6.3
400	-15.0	-3.0	6.7	0	1.8	0.20	335.6	169.8	7.3
350	-22.2	-1.6	4.0	0	1.1	0.20	338.7	171.6	4.3
302	-29.6	-2.2	-2.3	0	0.53	0.20	342.9	57.8	3.2
258	-39.1	-1.4	-4.1	7.0	0.17	0.20	344.9	33.1	4.3
219	-48.6	-3.5	-4.2	4.9	1E-1	0.20	346.9	53.7	5.4
182	-59.5	-1.4	-3.4	0	4E-2	0.20	348.0	36.4	3.6
137	-73.9	-6.3	-1.5	0.79	1E-2	0.20	351.8	90.1	6.5
88	-66.1	-10.1	2.3	-1.7	1E-2	0.20	415.6	116.4	10.4
63	-59.7	-15.7	-6.8	0.39	1E-2	0.20	471.7	80.6	17.1
38	-45.7	-23.7	-7.1	1E-1	3E-2	0.20	581.7	87.3	24.7

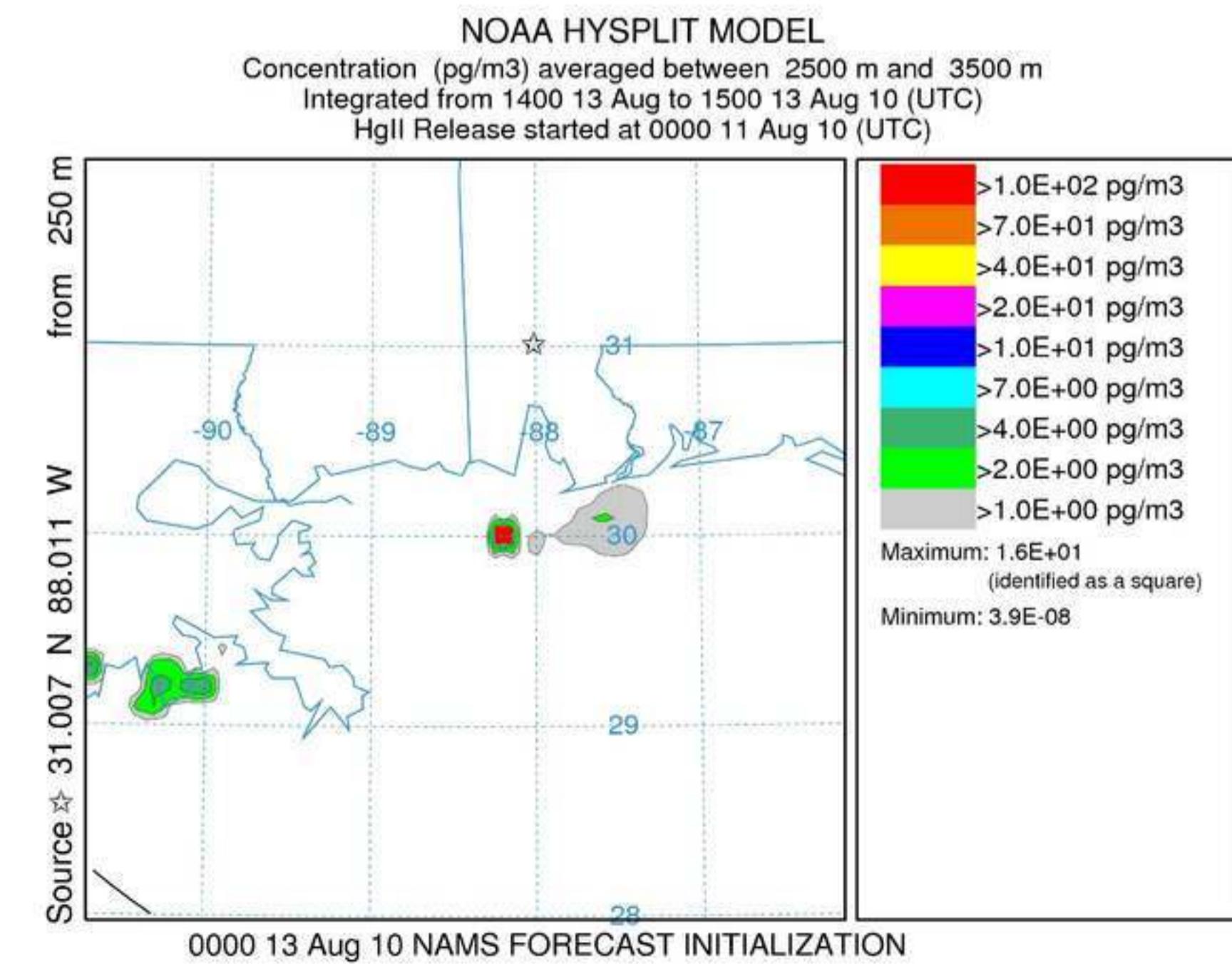
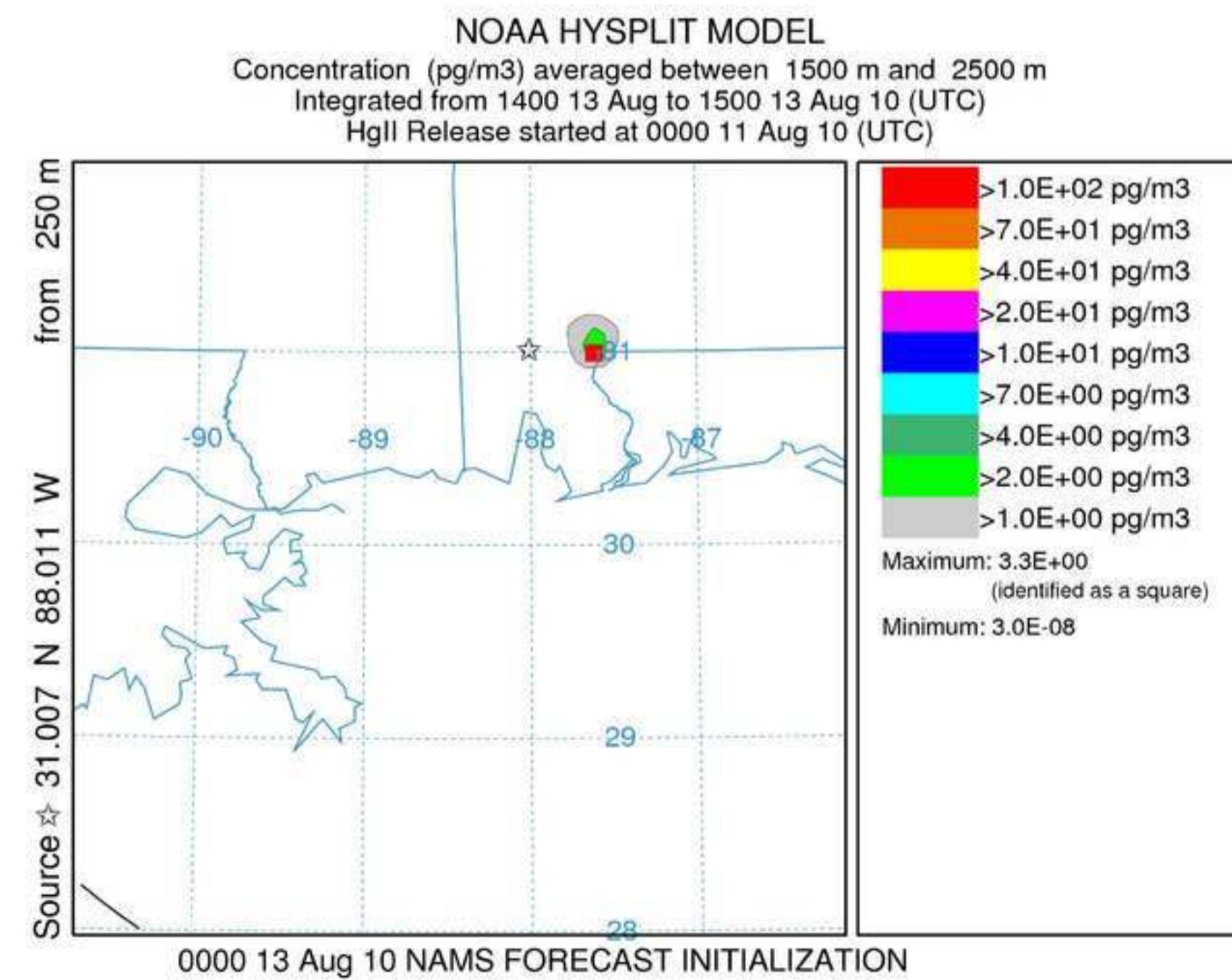
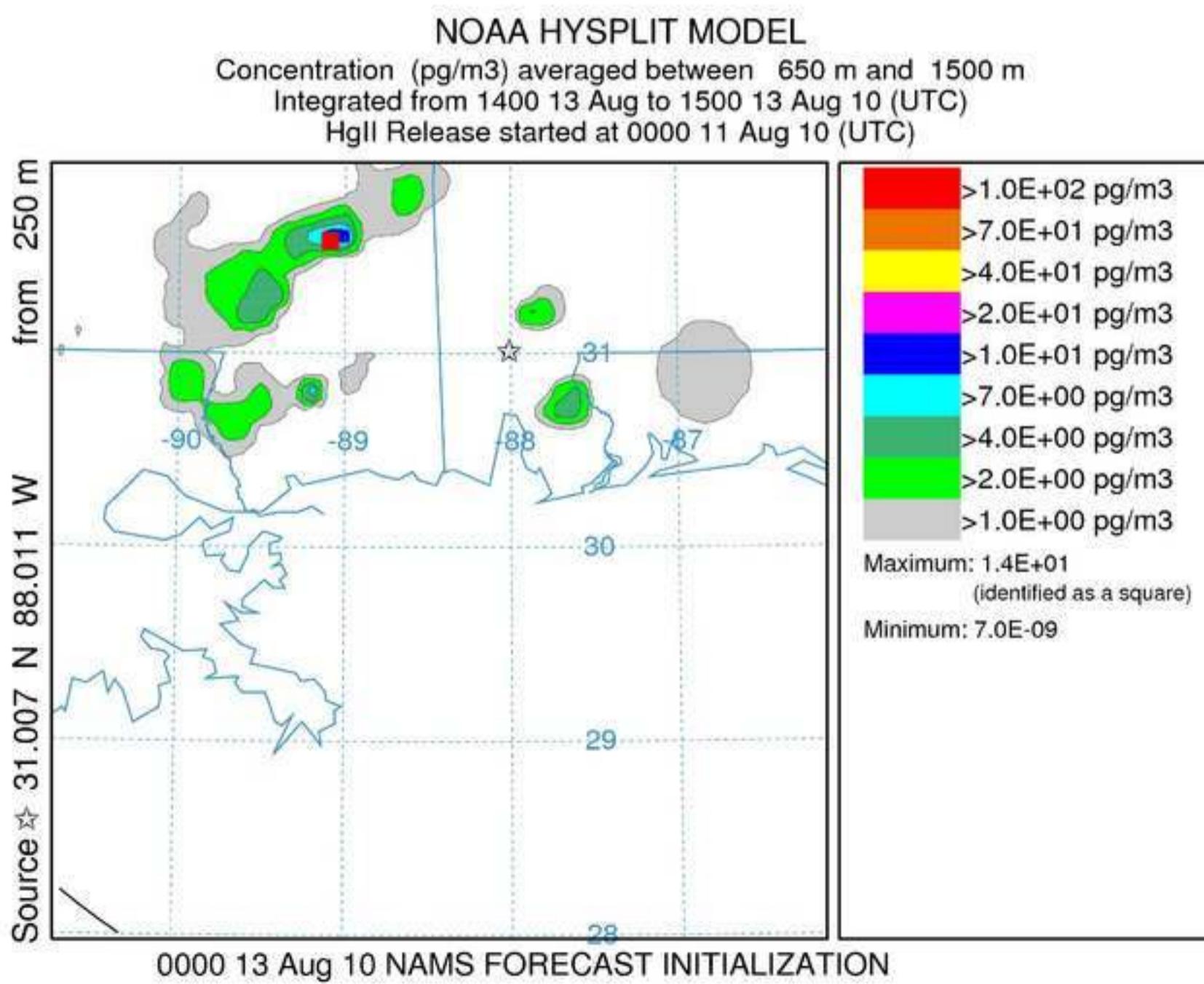
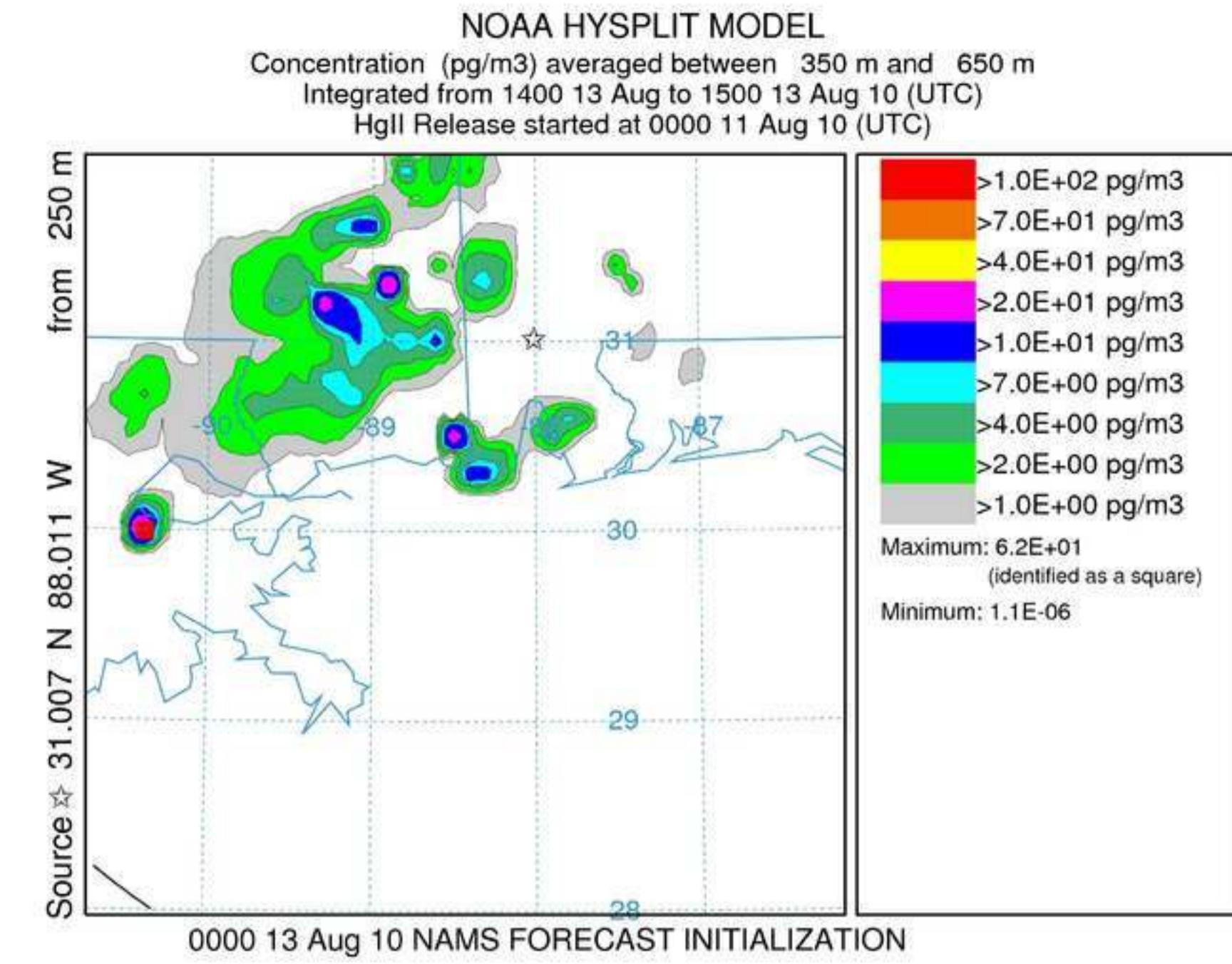
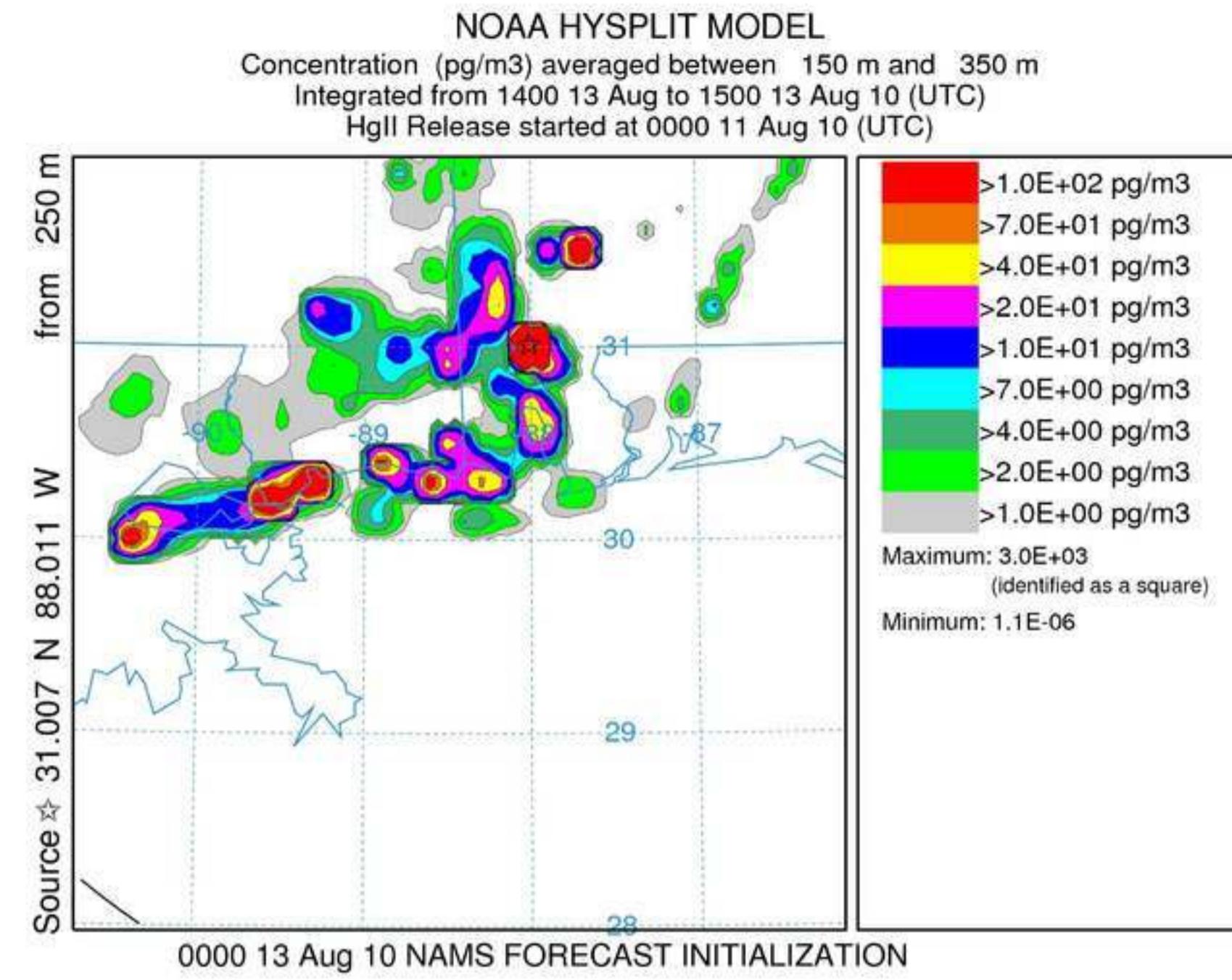
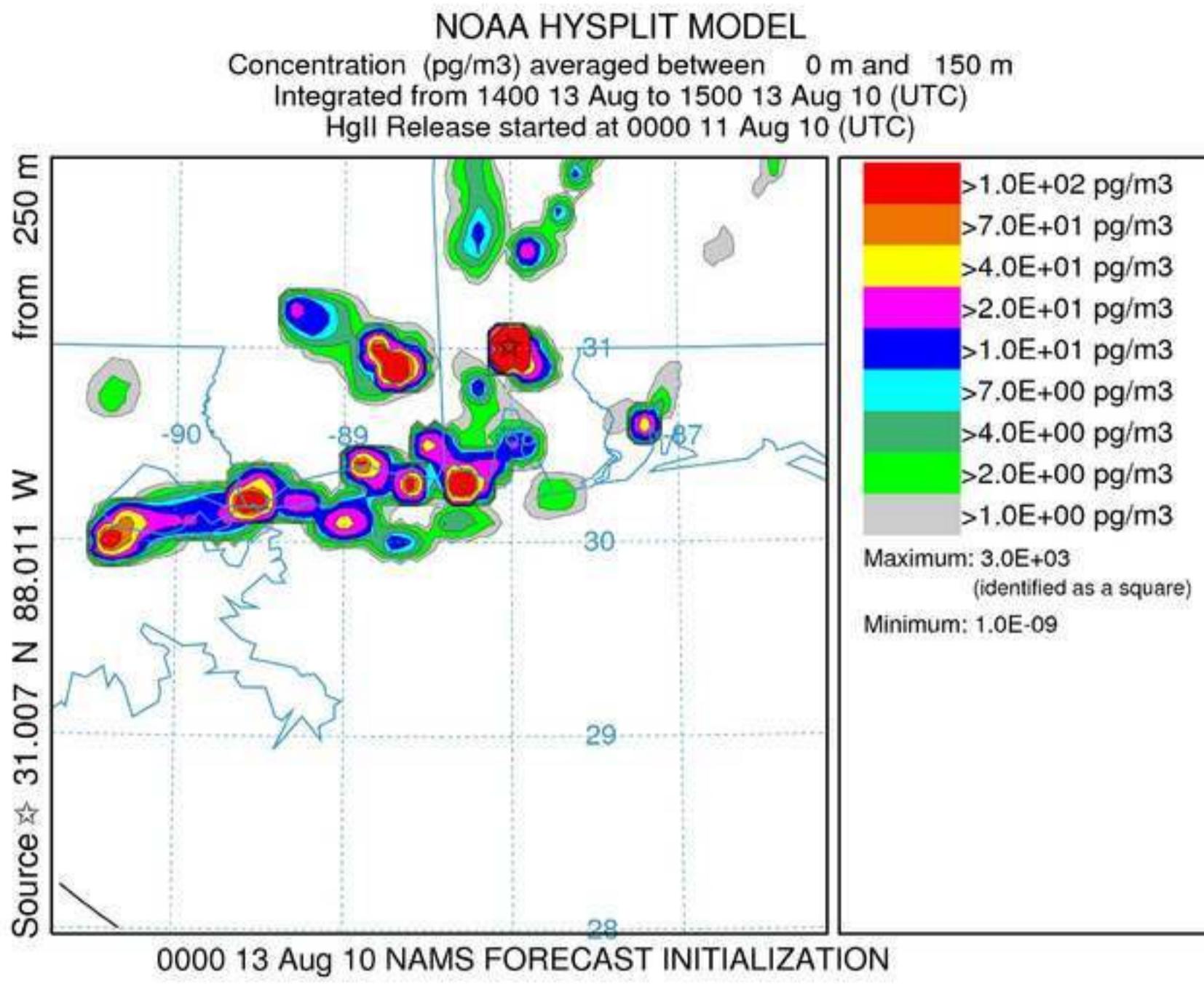


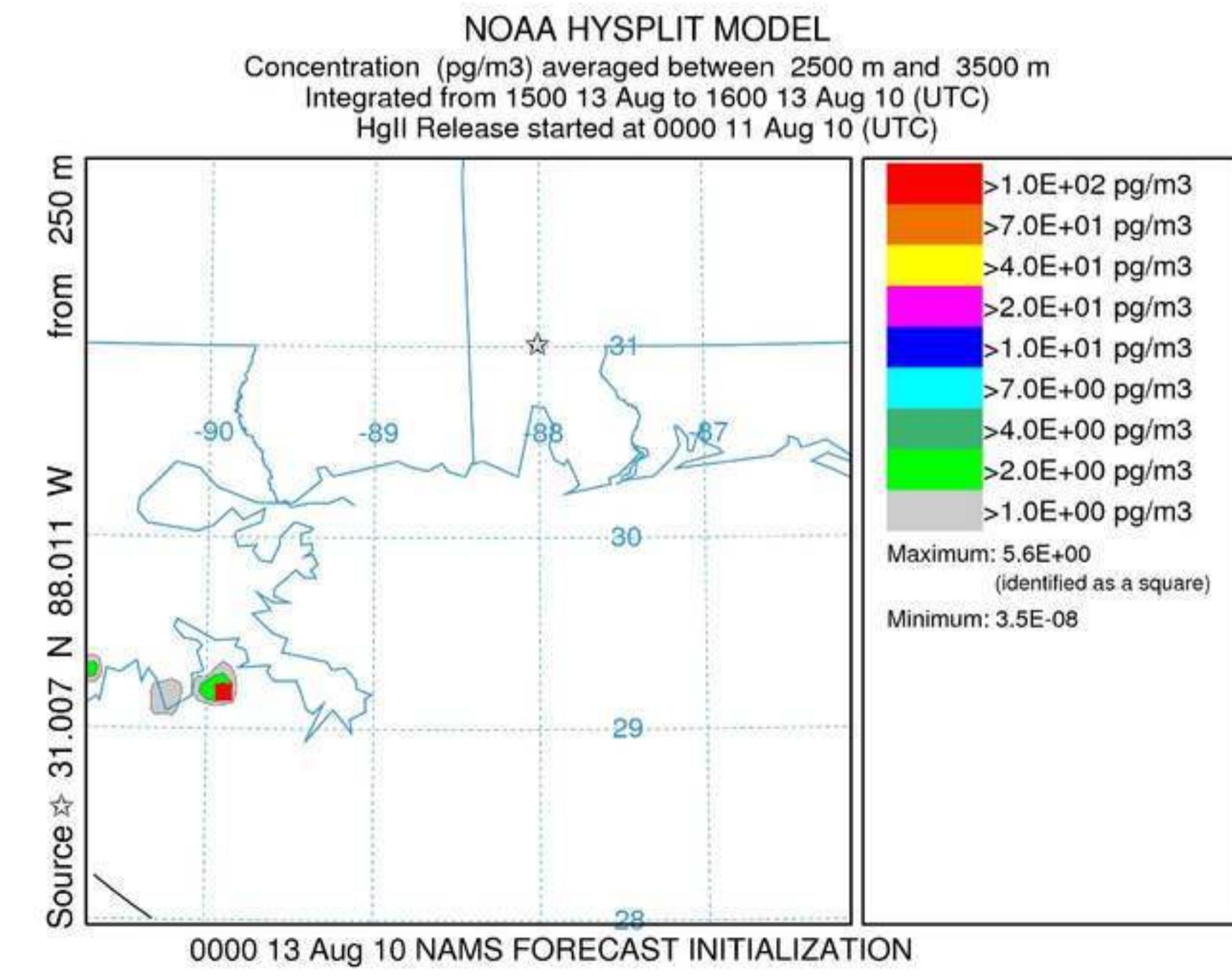
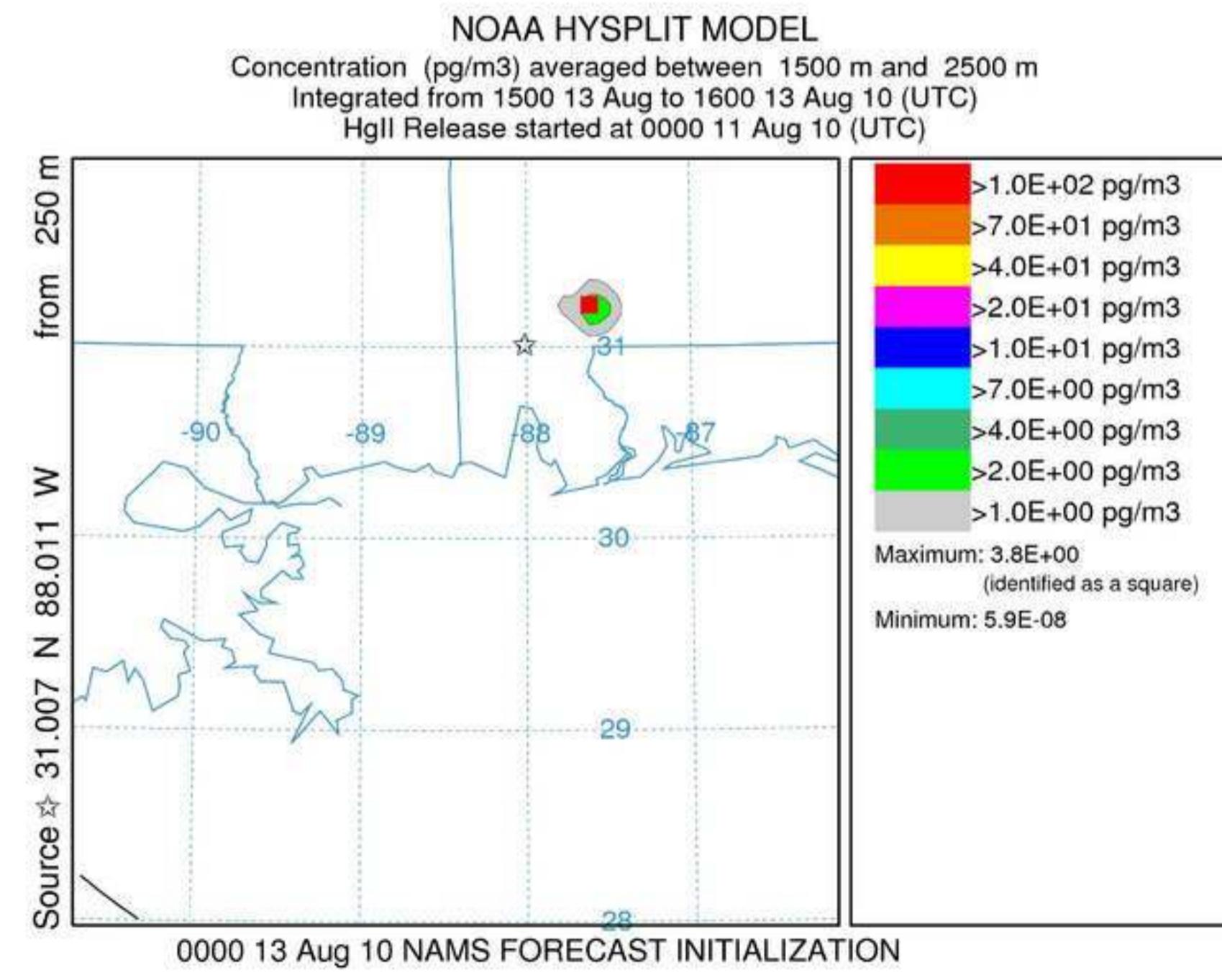
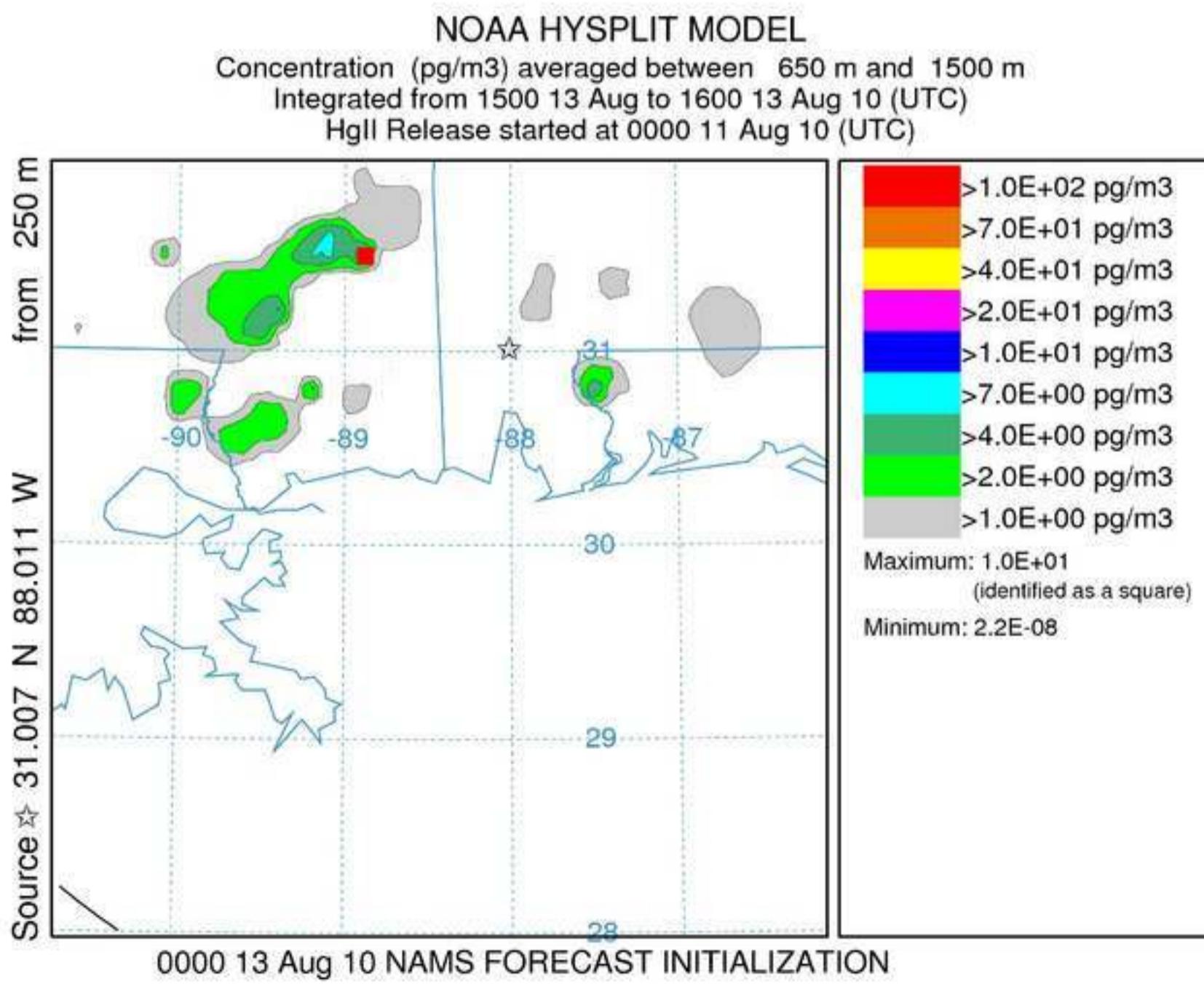
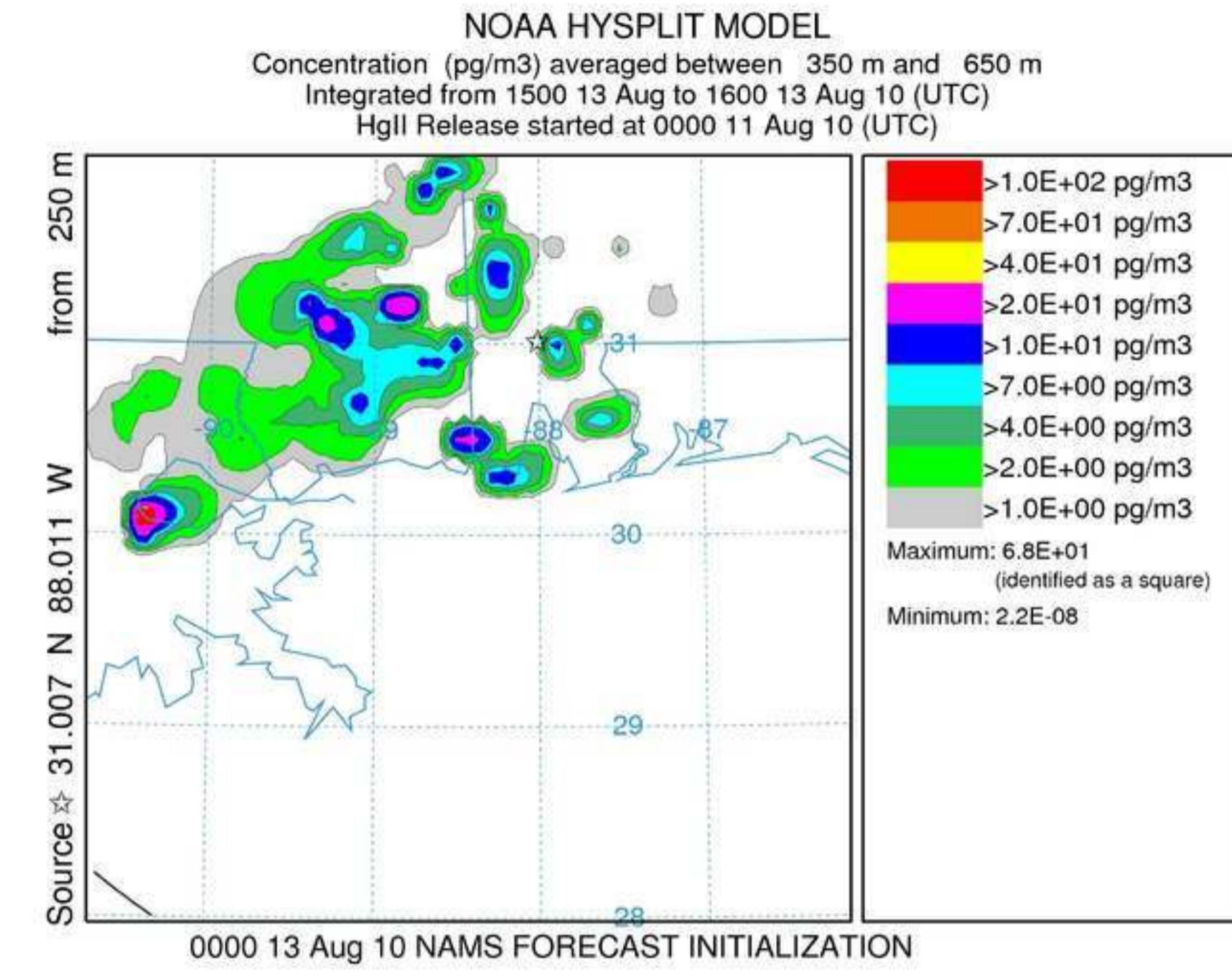
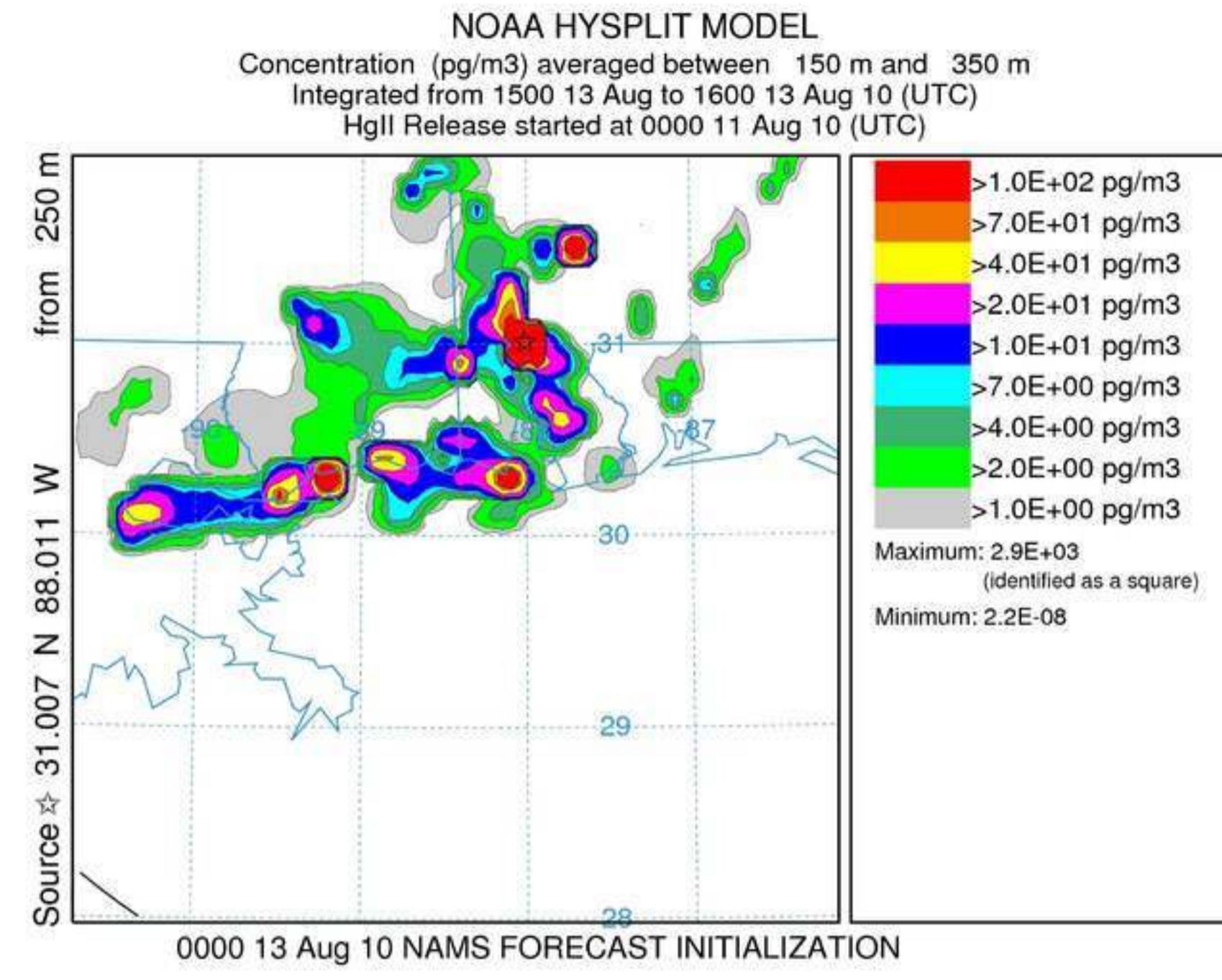
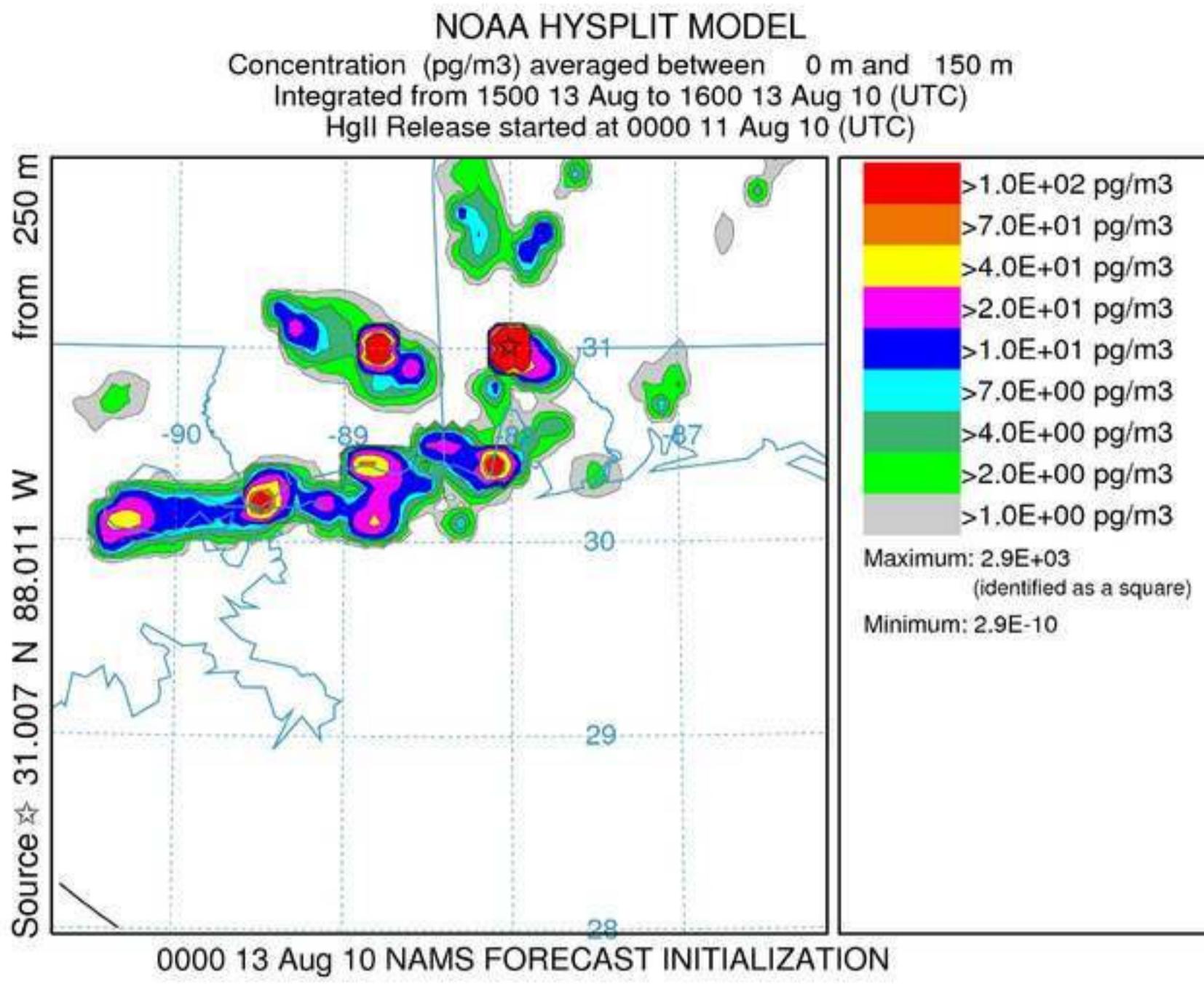


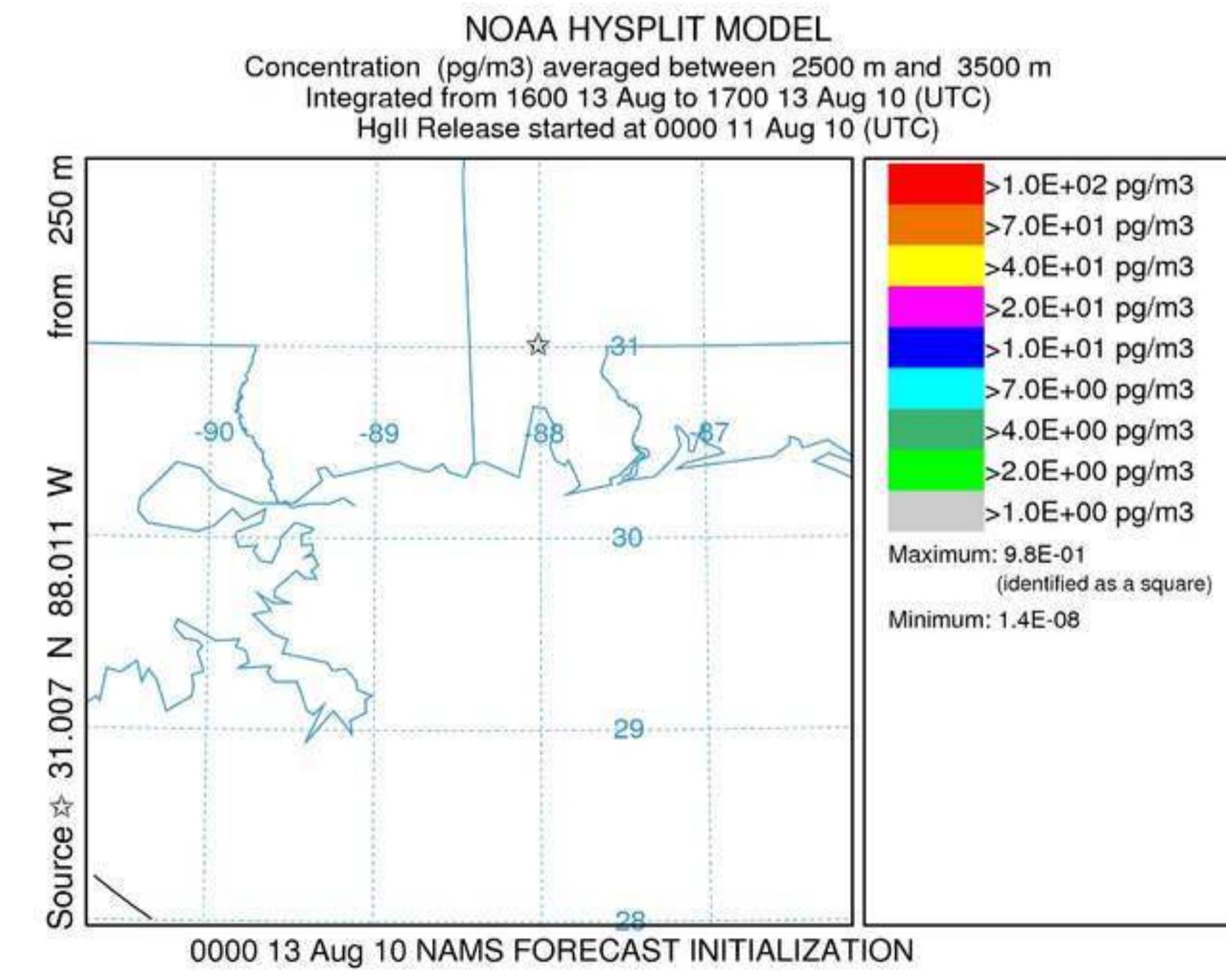
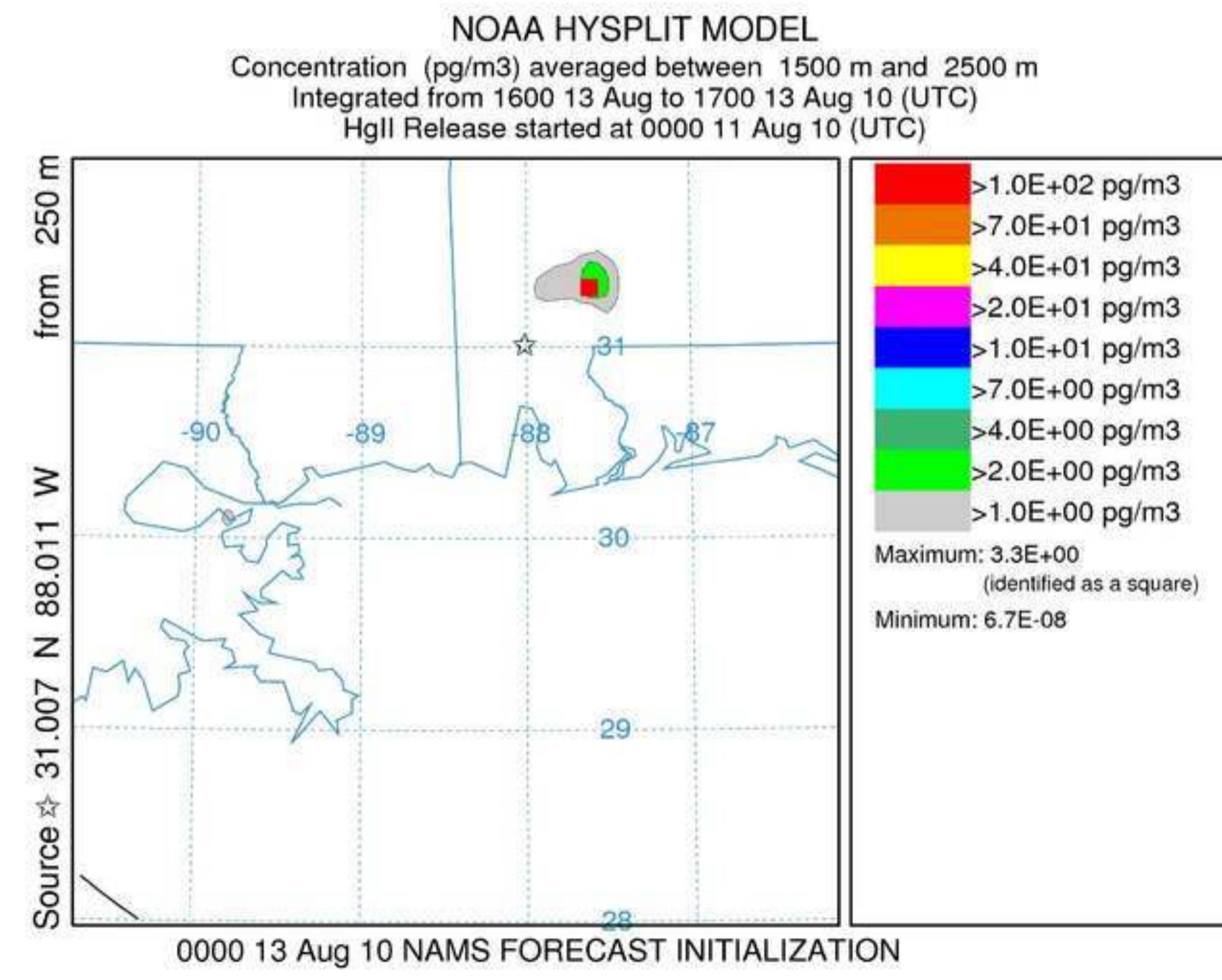
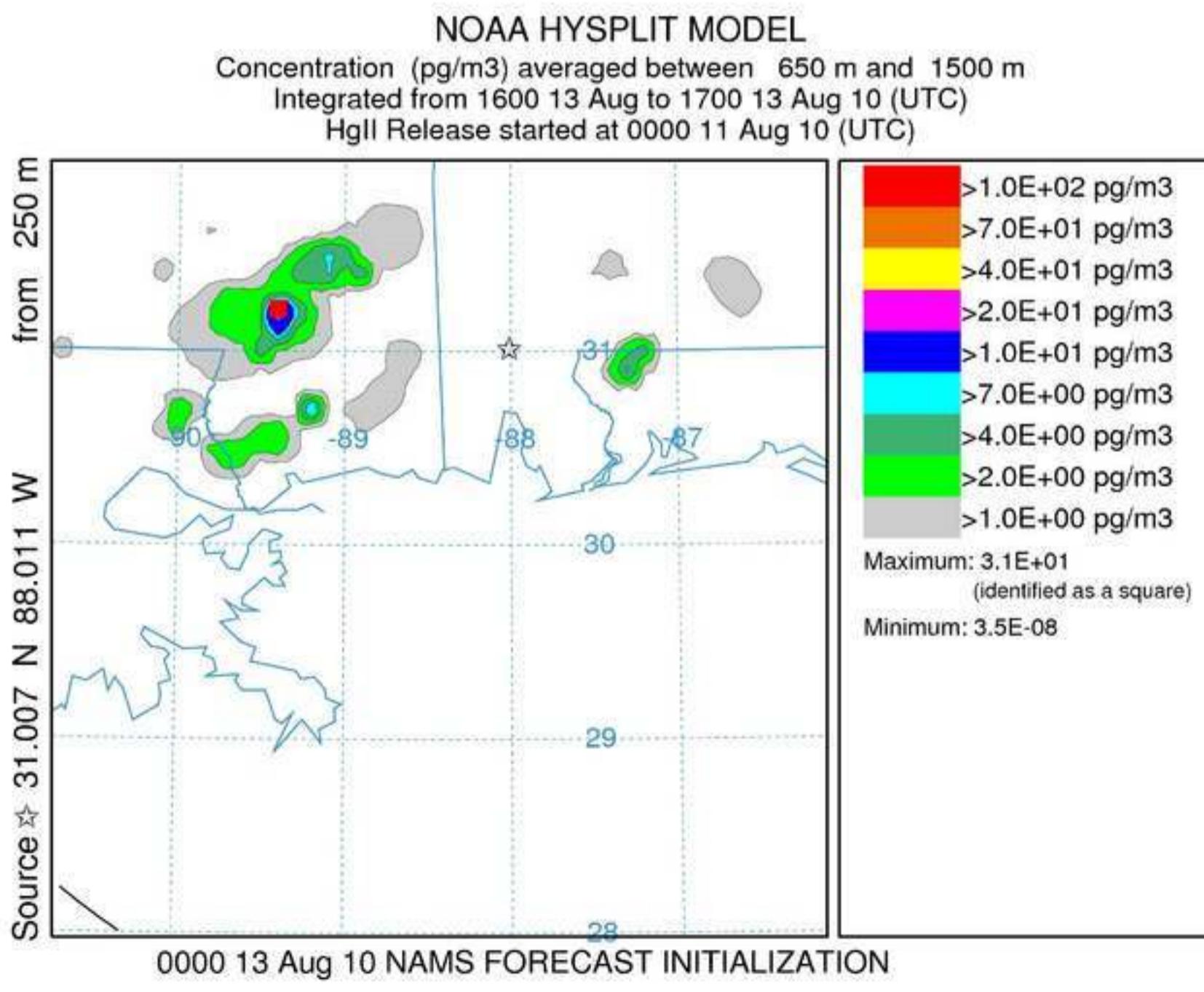
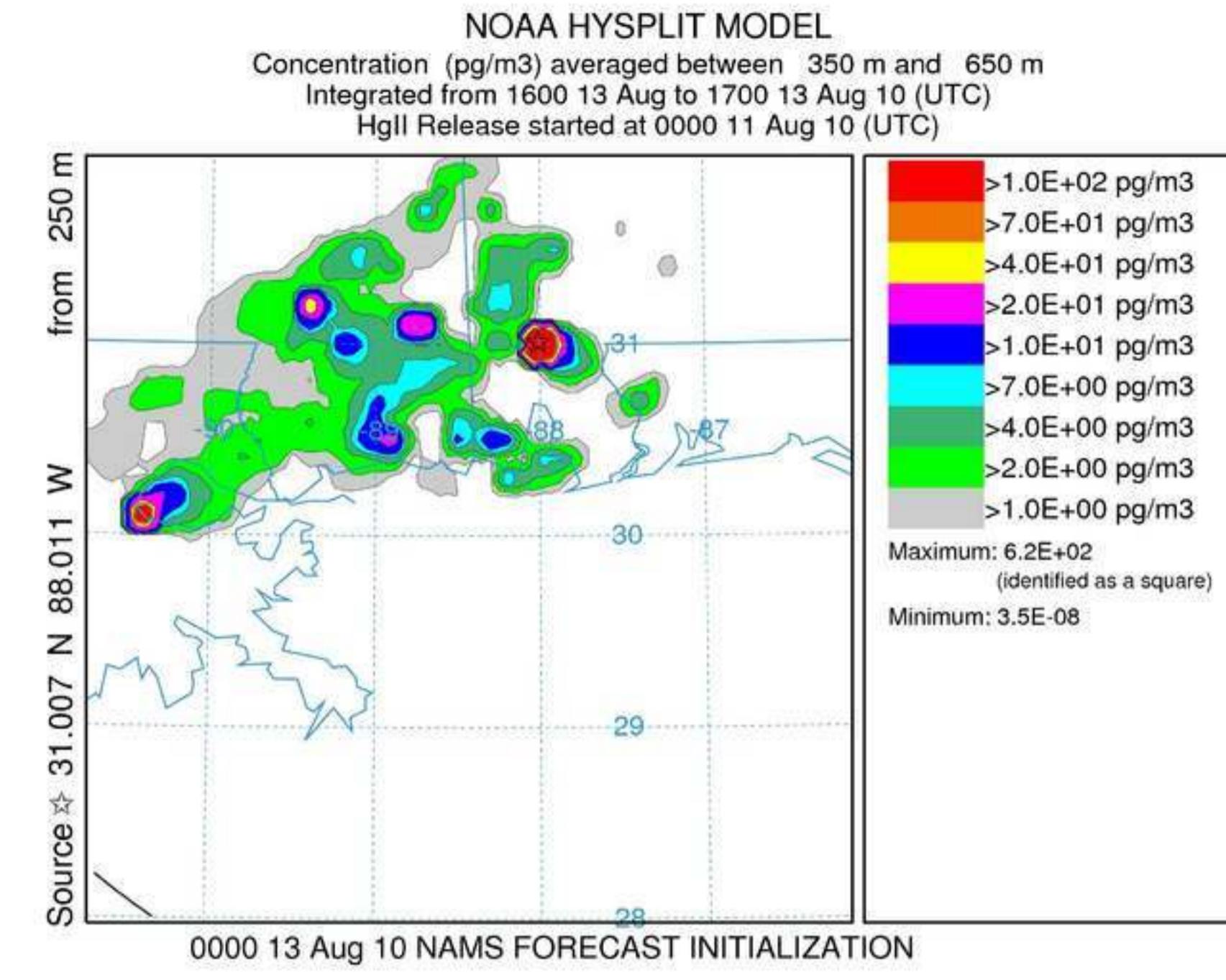
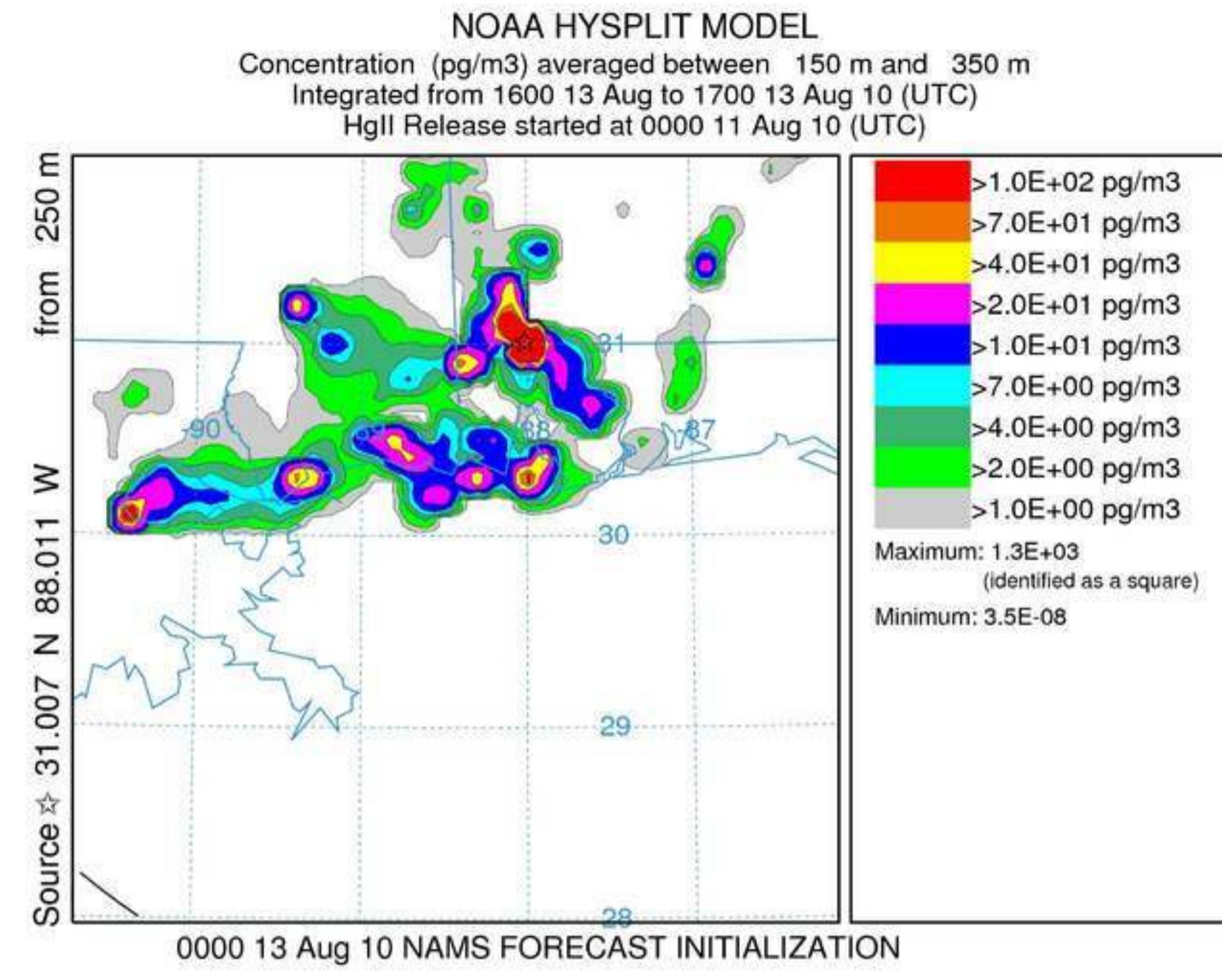
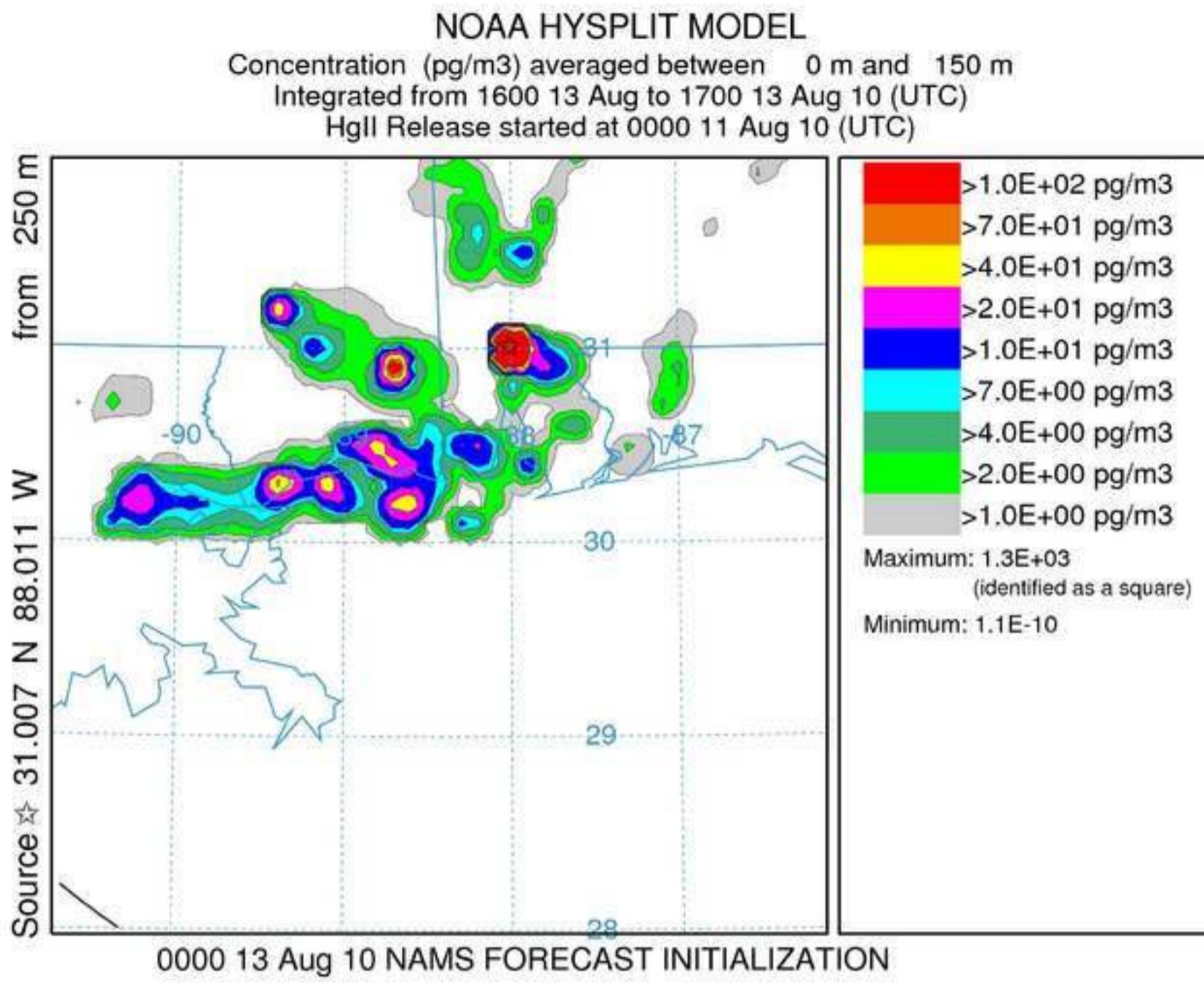
- (a) Mercury emissions included in 2002 NEI, but do not appear to be in 2000-2008 TRI
 (b) Mercury emissions included in 2002 NEI but incineration ceased in January 2001
 (c) Significant mercury emissions in 2002 NEI, but negligible emissions reported in 2008 TRI
 (d) Scrubber installed Dec 2009 that reduced RGM emissions dramatically

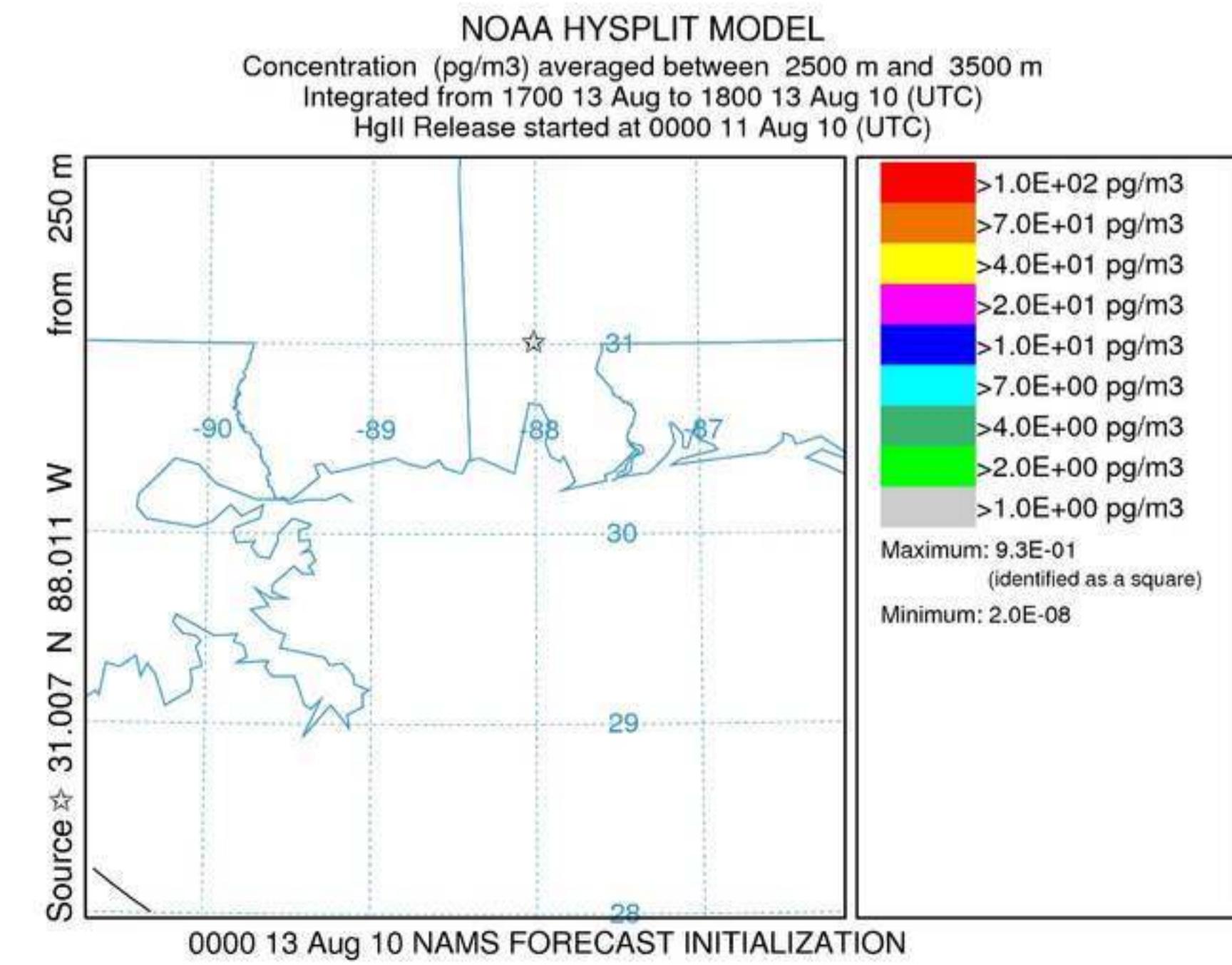
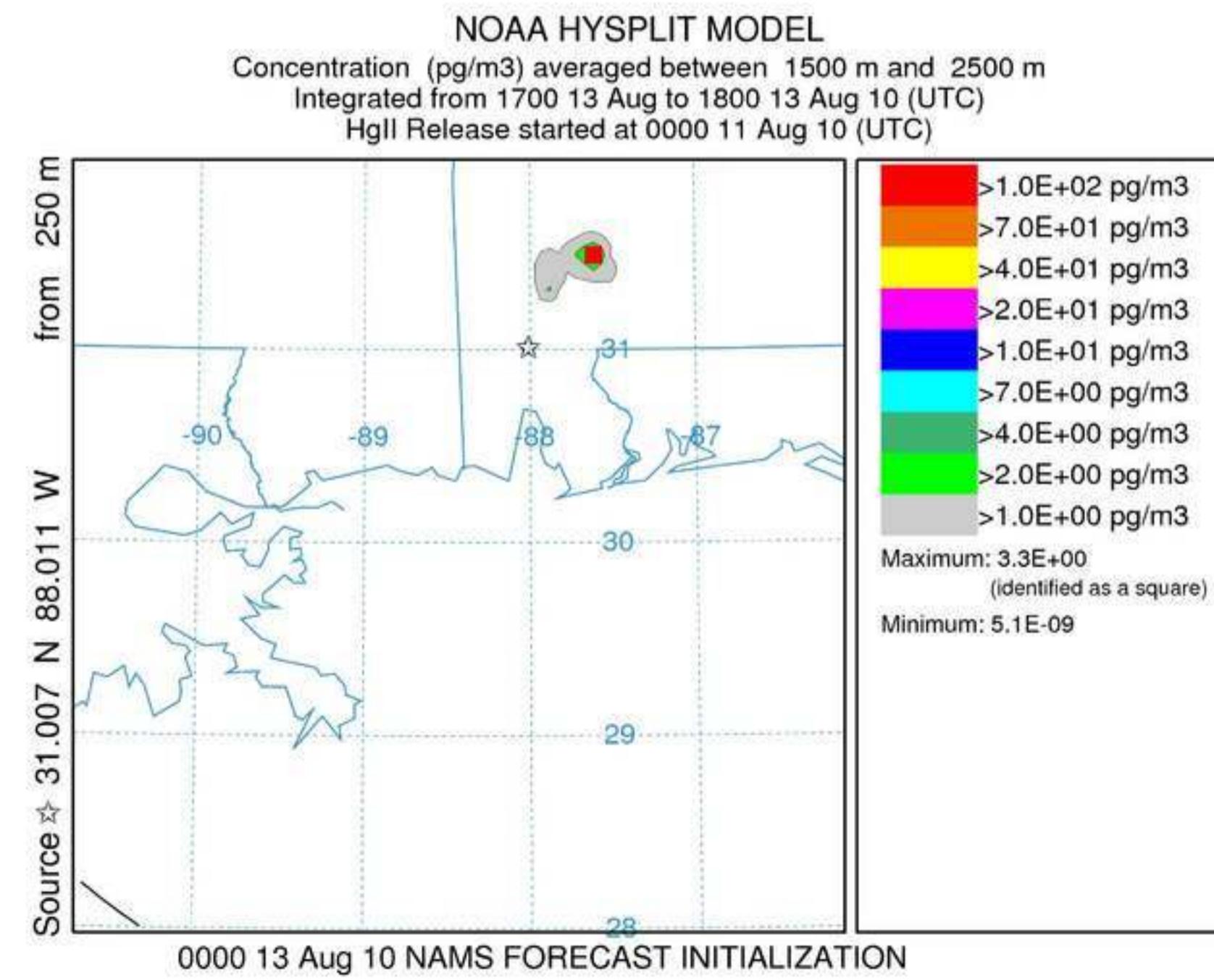
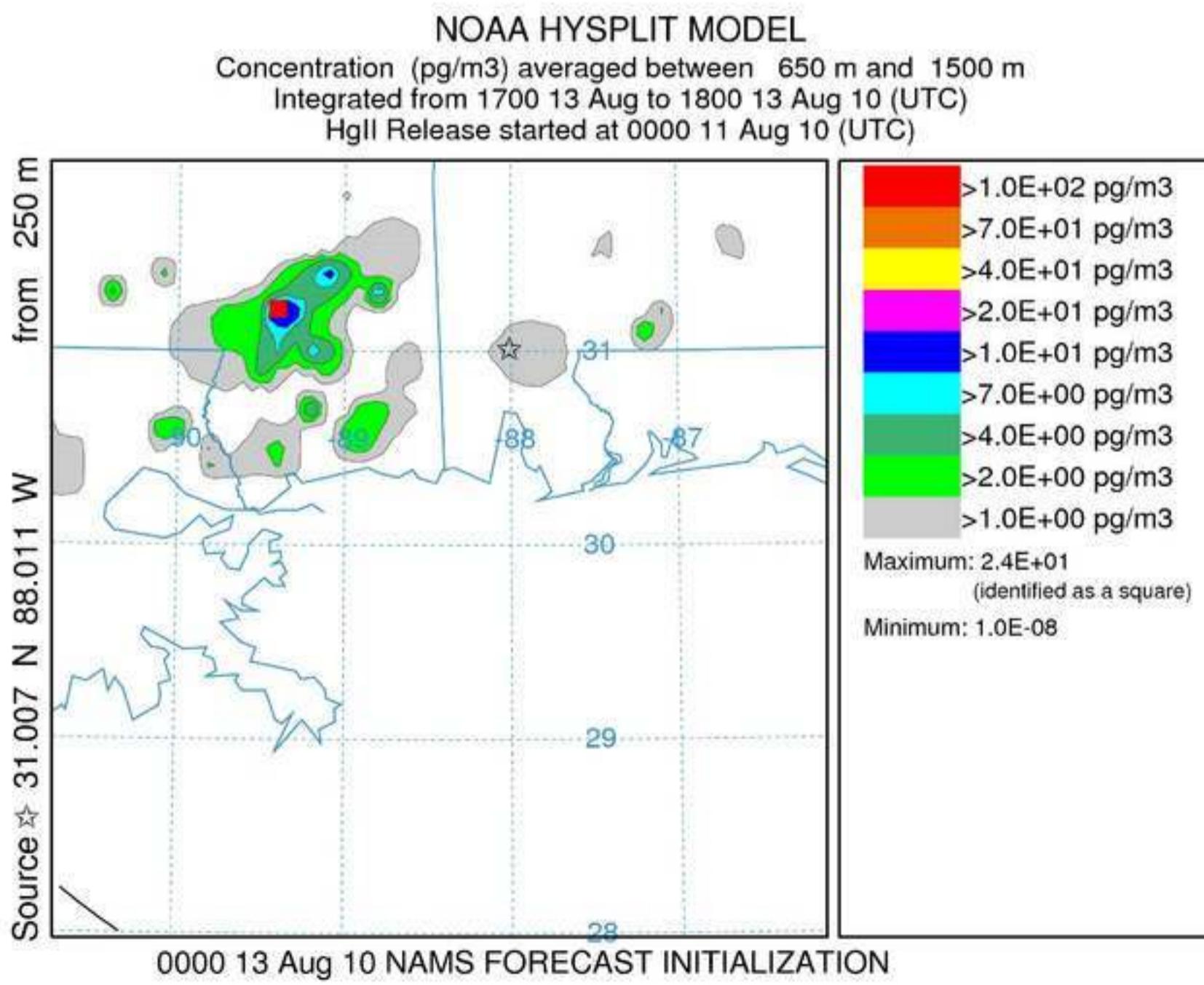
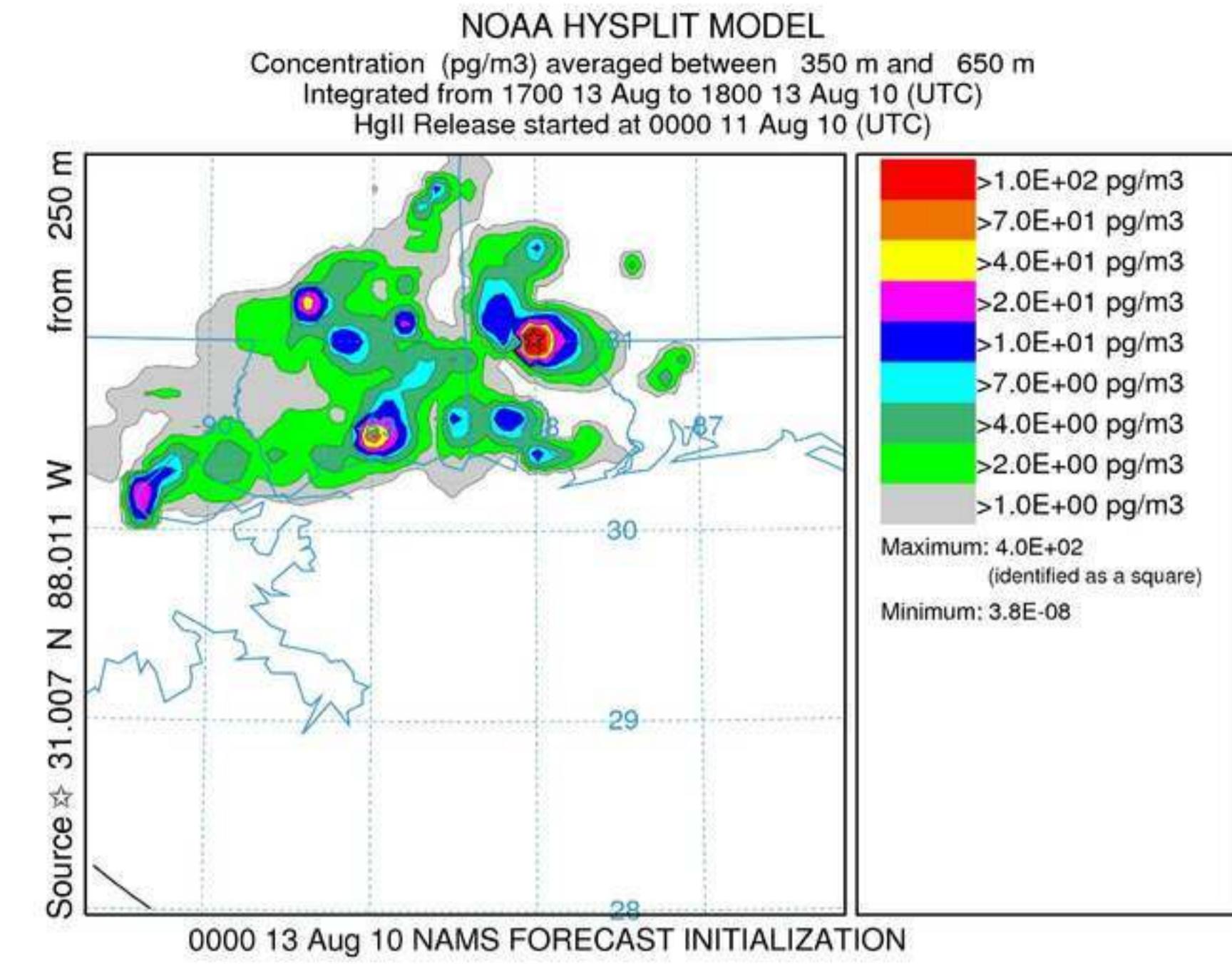
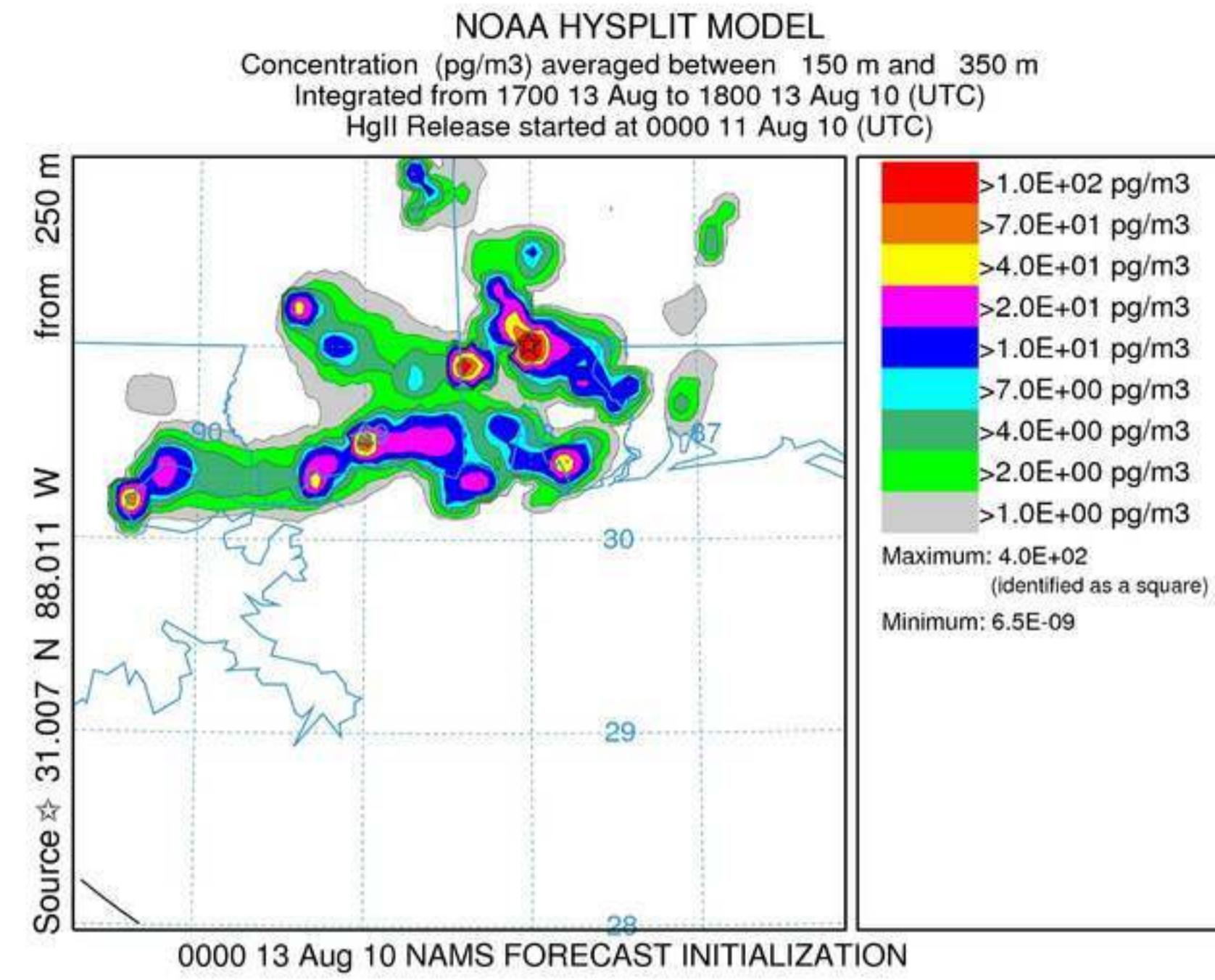
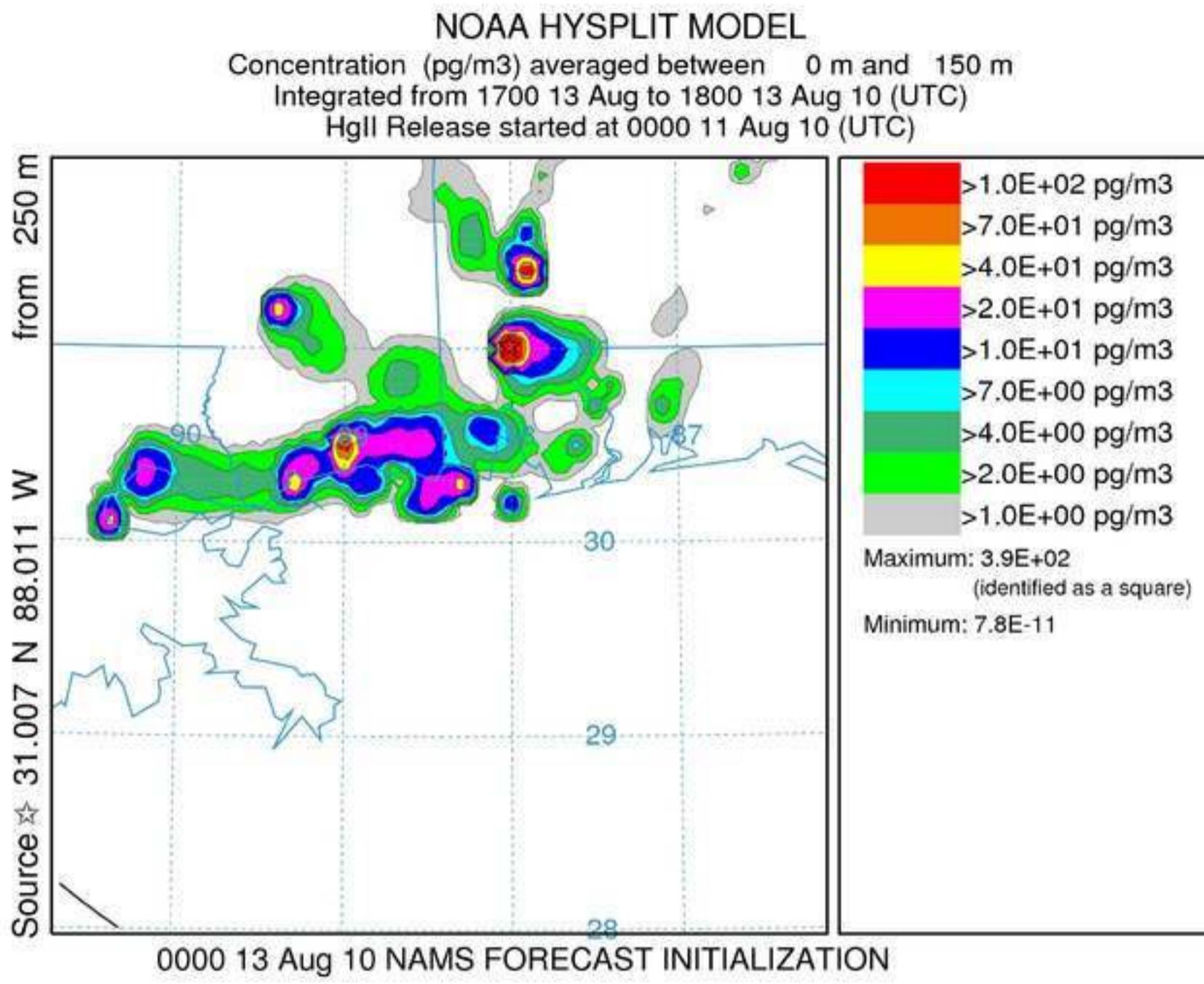
Location of the Grand Bay NERR sampling site, along with large point sources of Reactive Gaseous Mercury in the region, based on the EPA's 2002 National Emissions Inventory

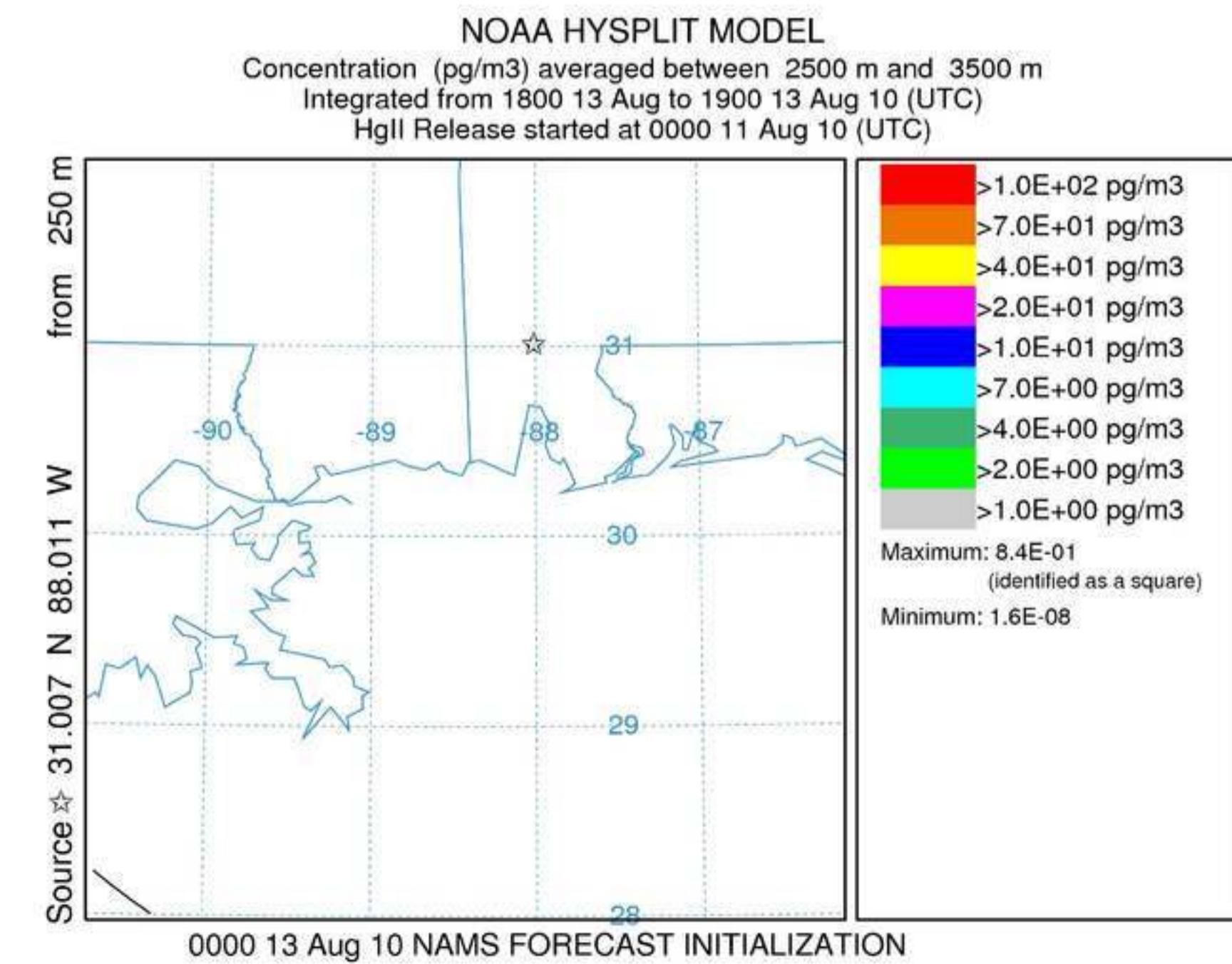
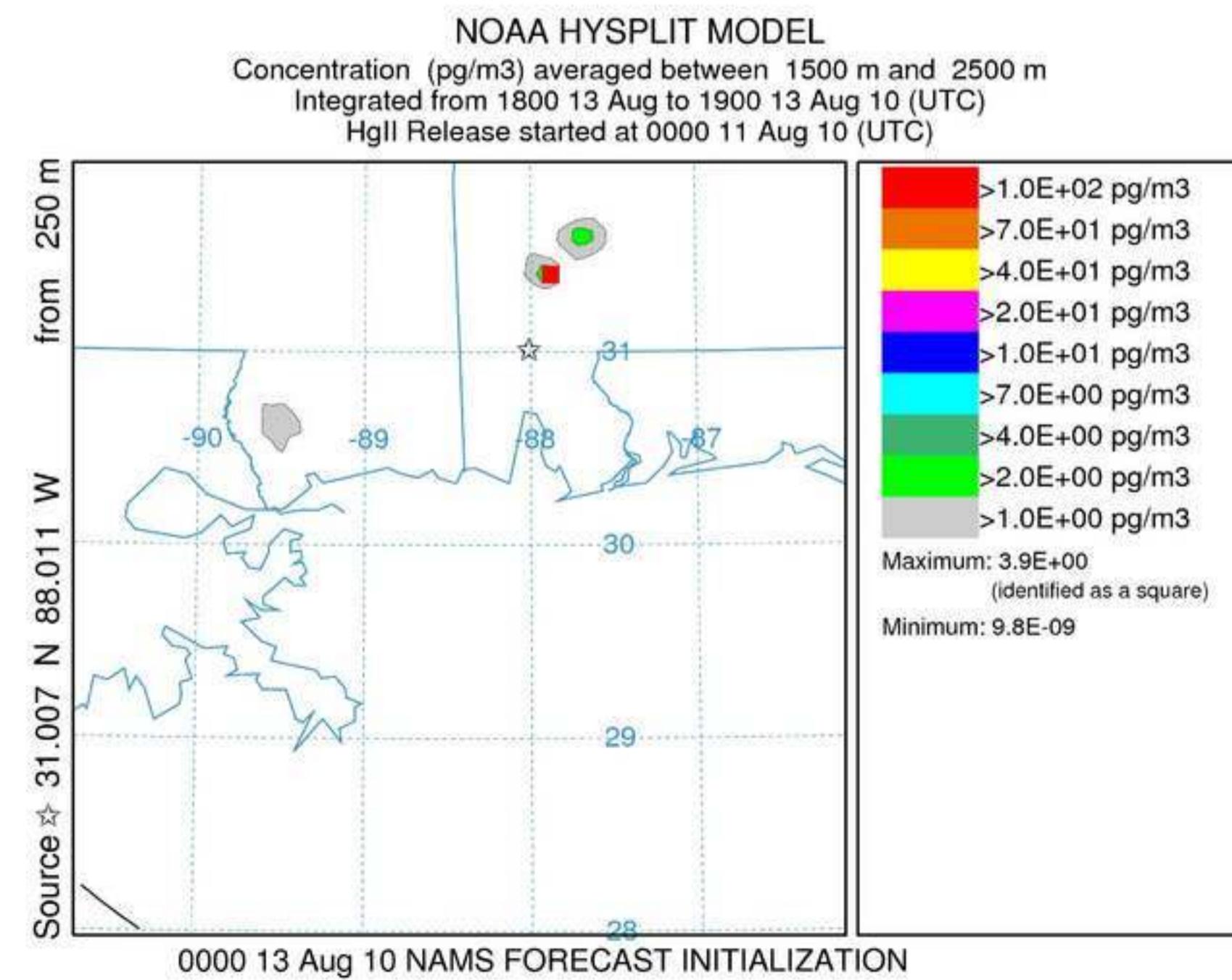
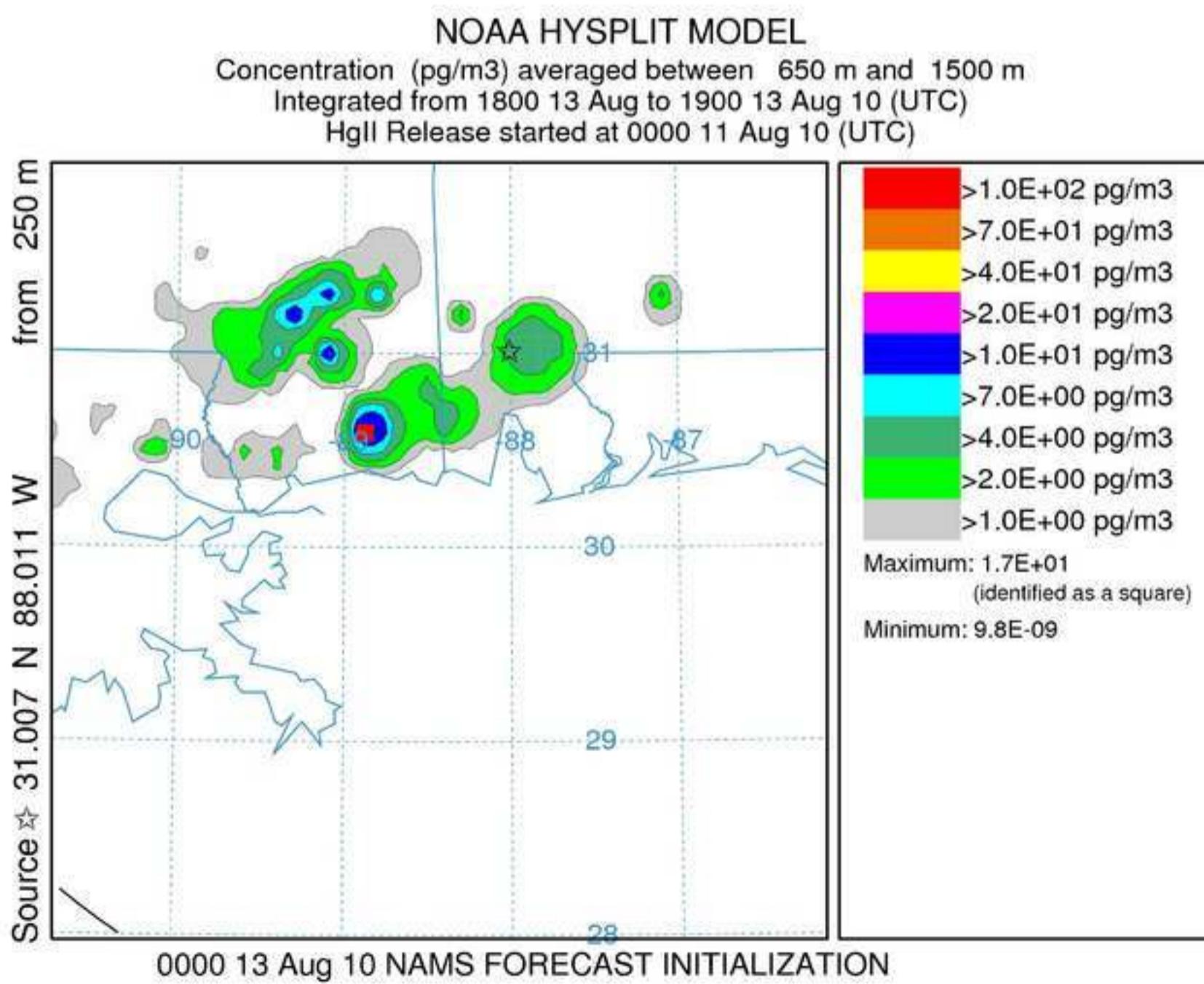
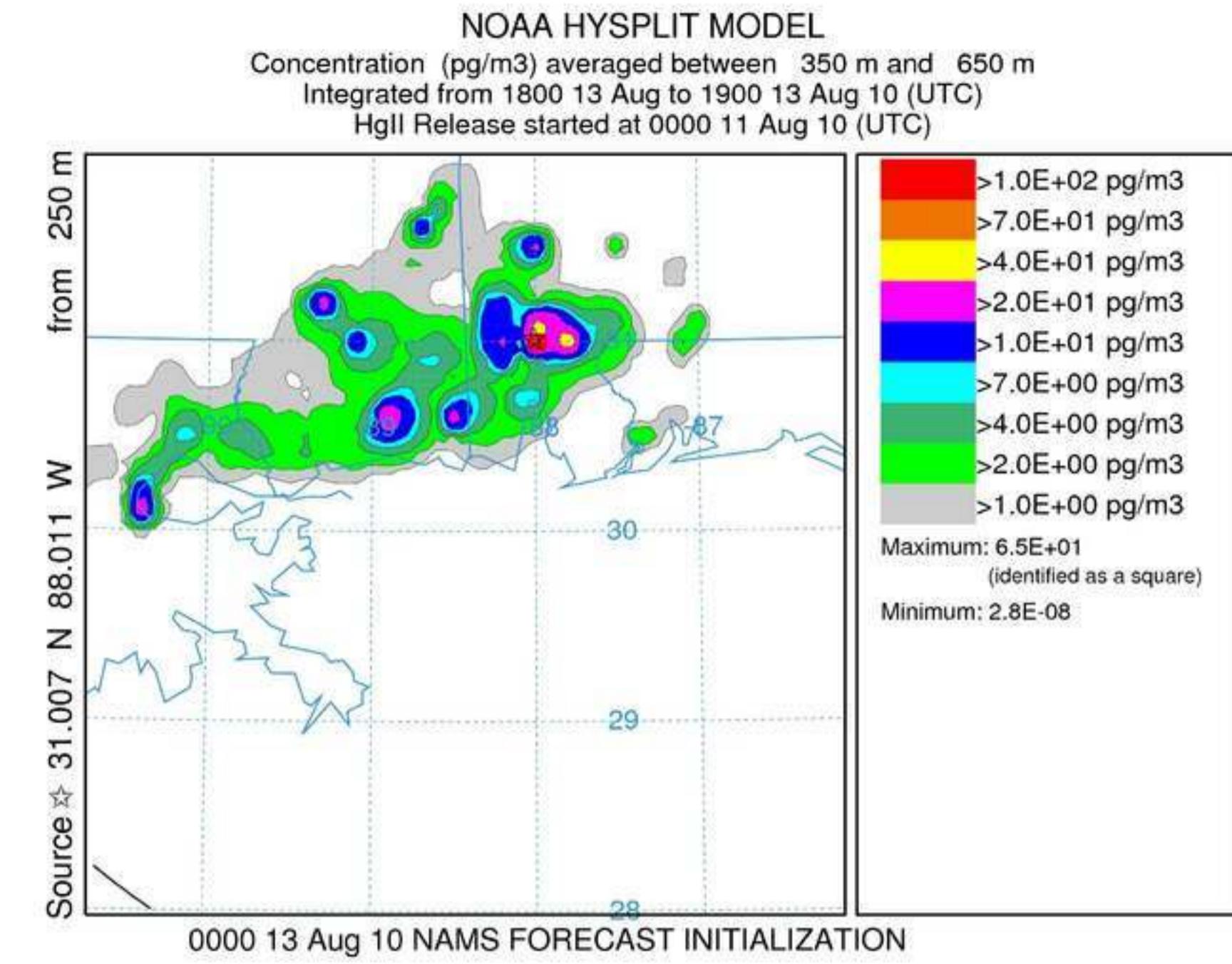
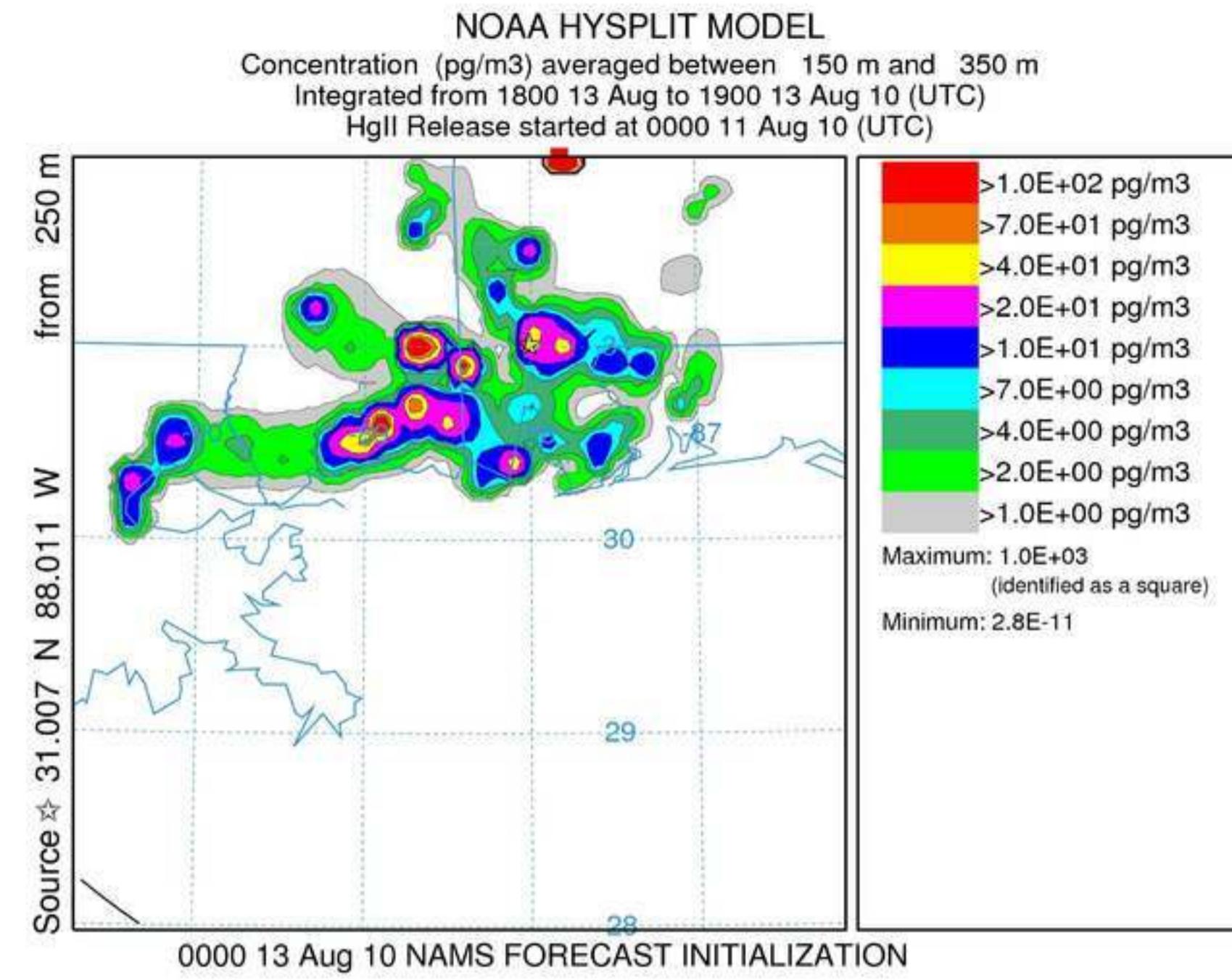
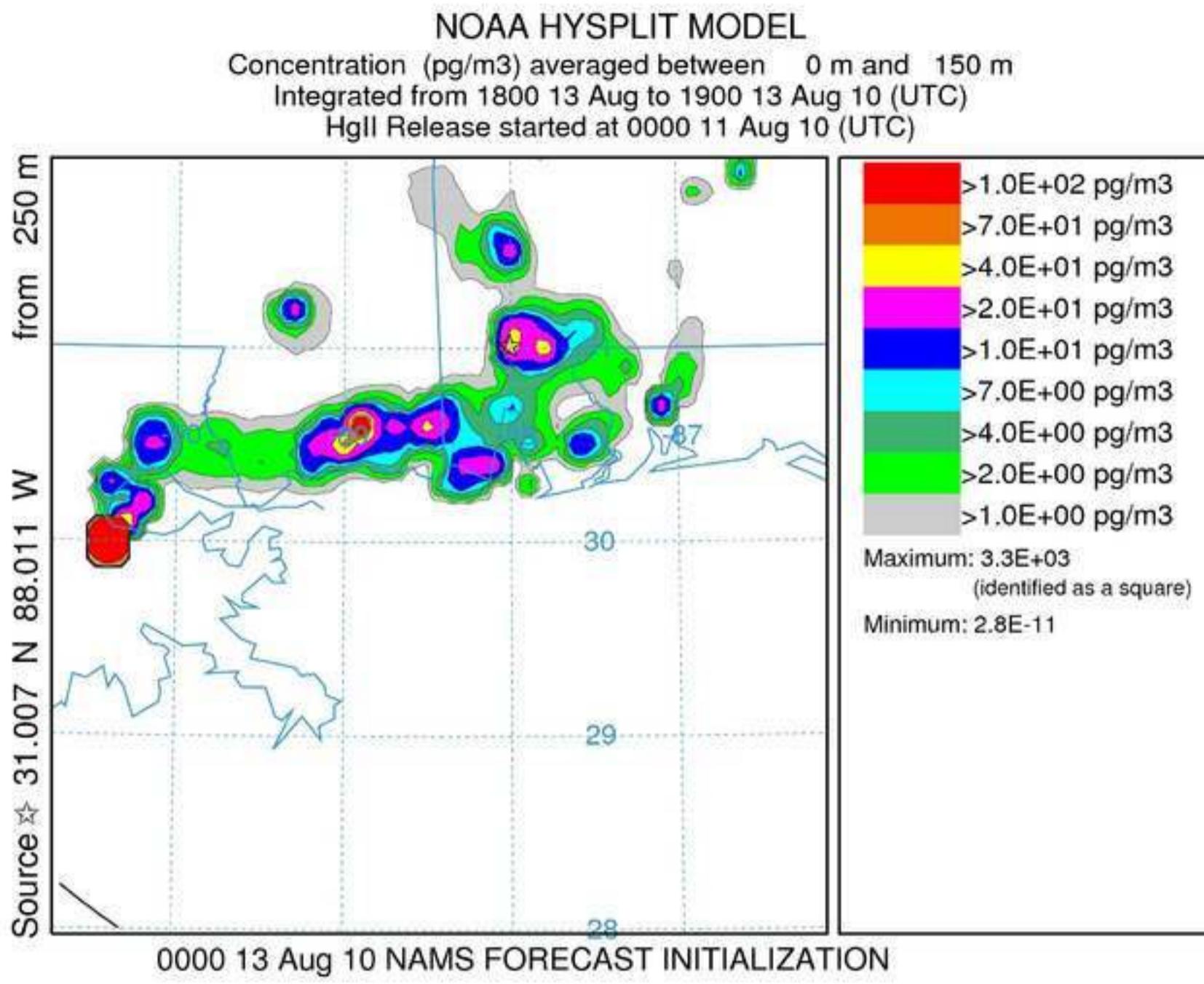






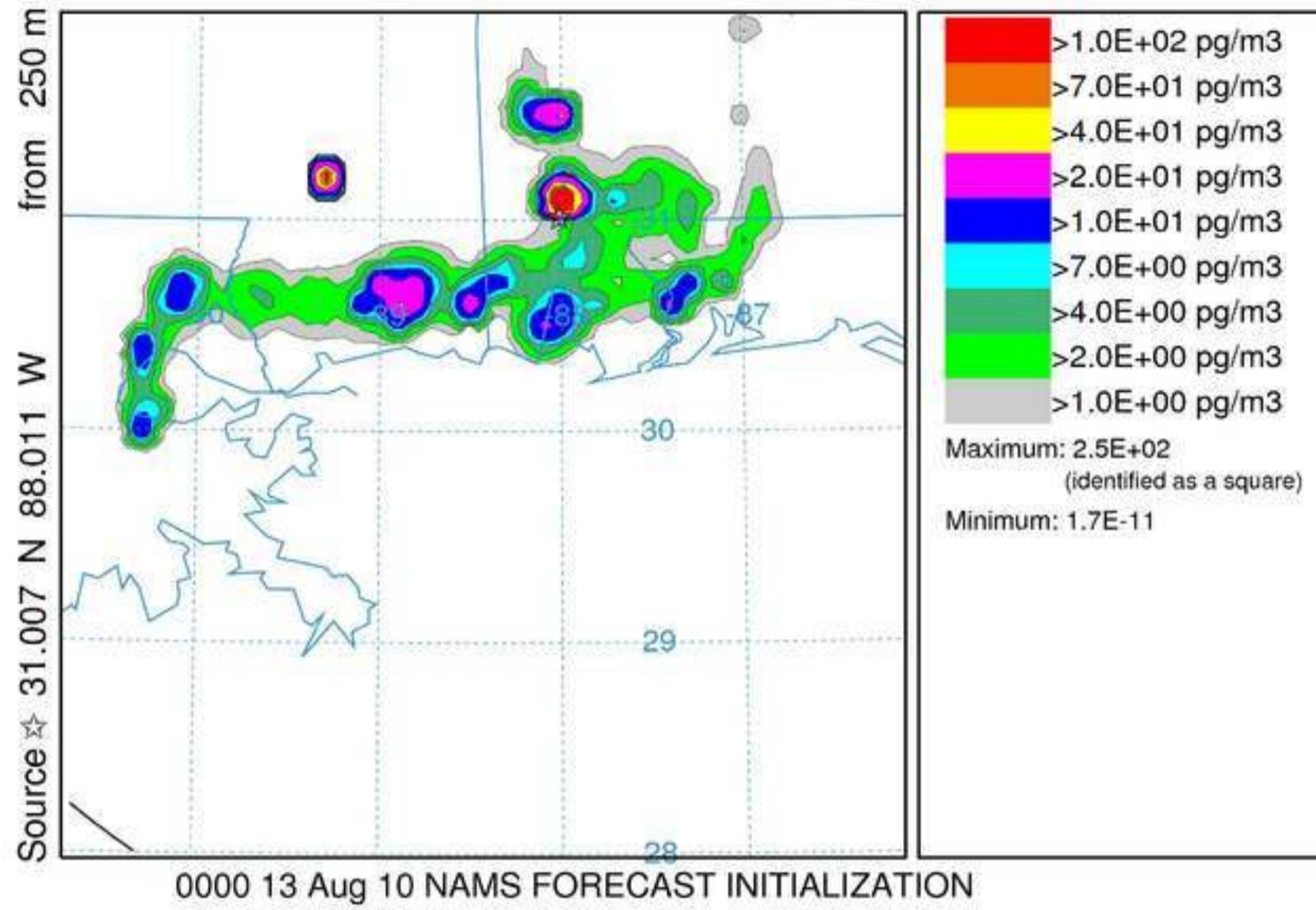






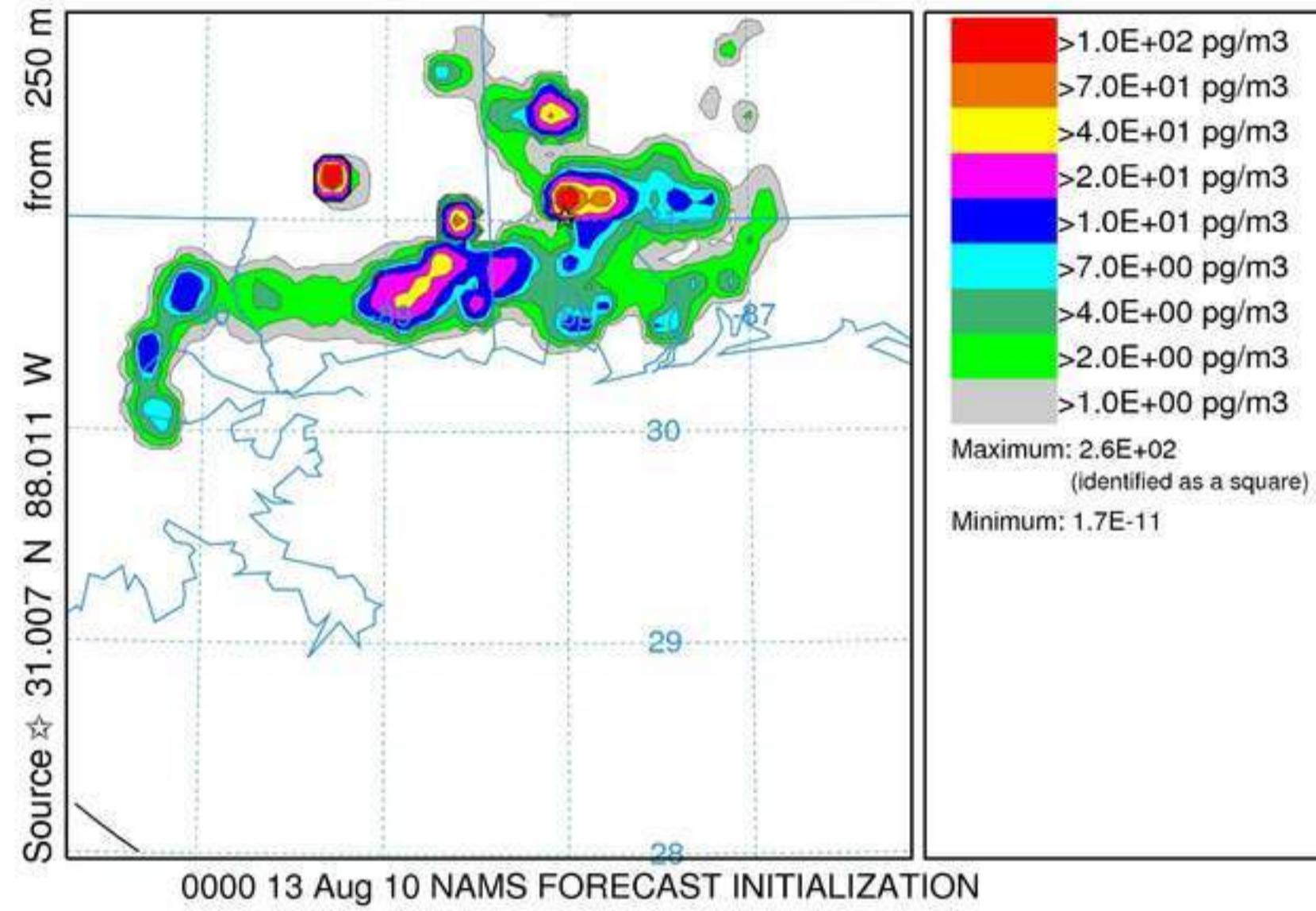
NOAA HYSPLIT MODEL

Concentration (pg/m³) averaged between 0 m and 150 m
Integrated from 1900 13 Aug to 2000 13 Aug 10 (UTC)
HgII Release started at 0000 11 Aug 10 (UTC)



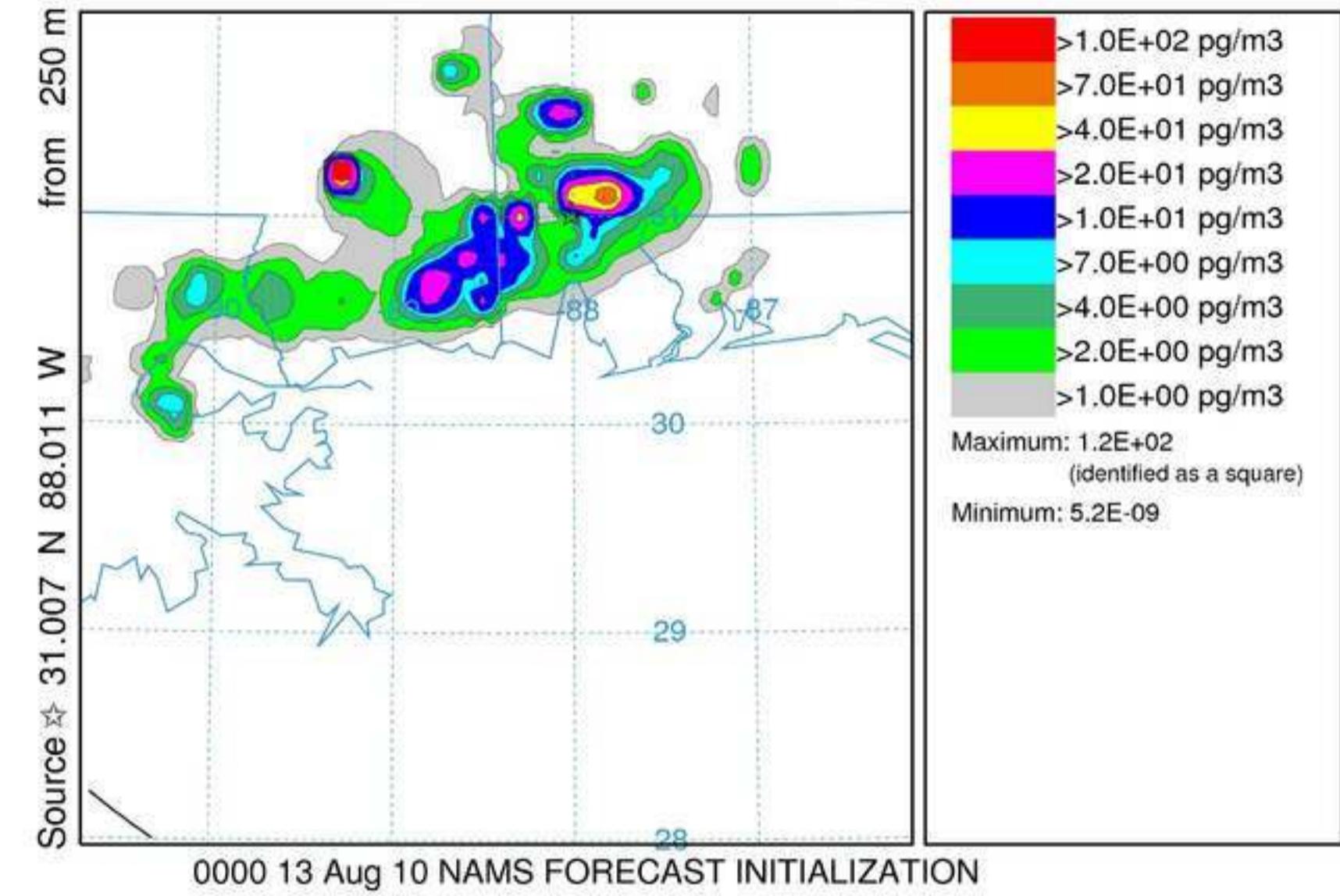
NOAA HYSPLIT MODEL

Concentration (pg/m³) averaged between 150 m and 350 m
Integrated from 1900 13 Aug to 2000 13 Aug 10 (UTC)
HgII Release started at 0000 11 Aug 10 (UTC)



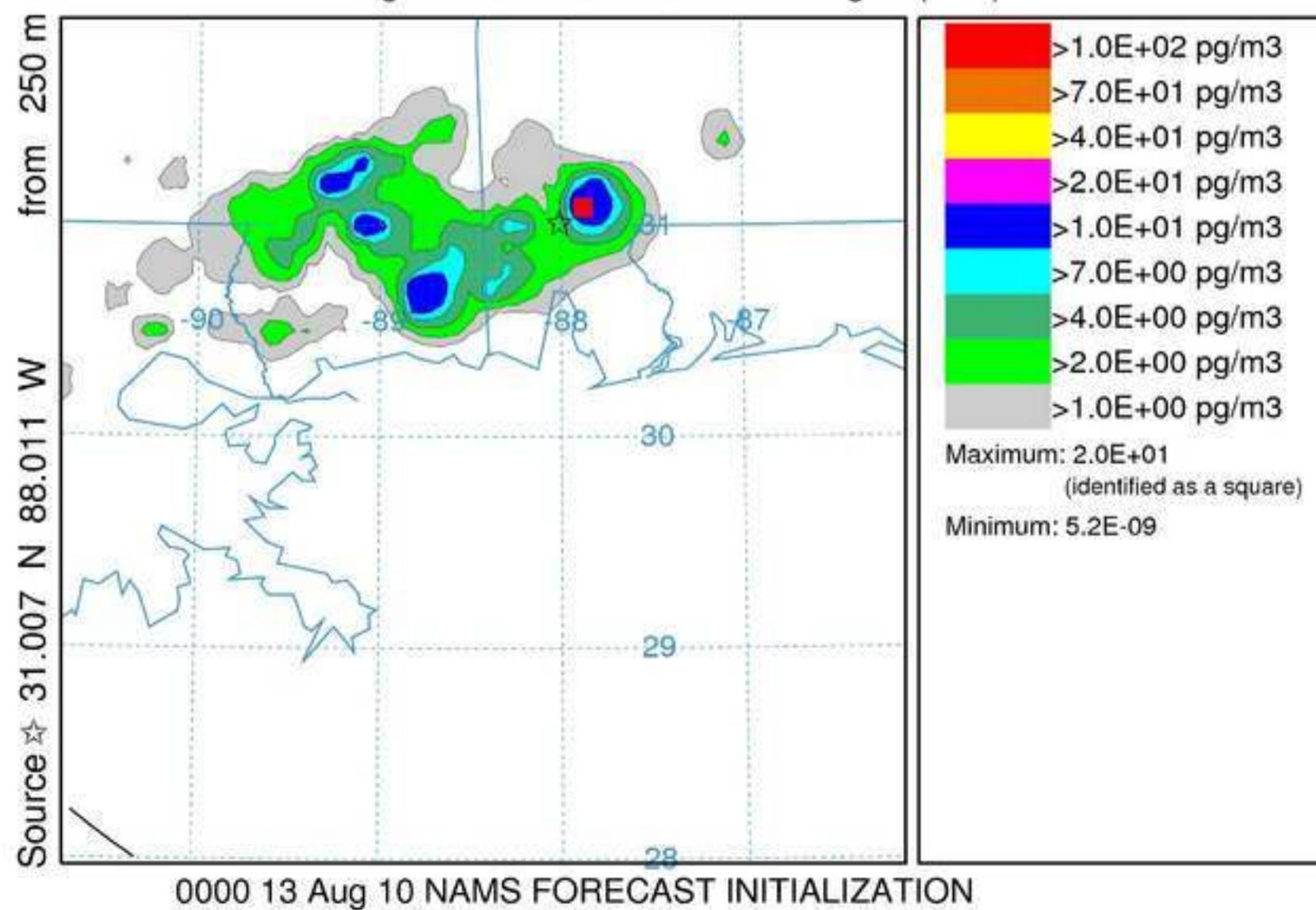
NOAA HYSPLIT MODEL

Concentration (pg/m³) averaged between 350 m and 650 m
Integrated from 1900 13 Aug to 2000 13 Aug 10 (UTC)
HgII Release started at 0000 11 Aug 10 (UTC)



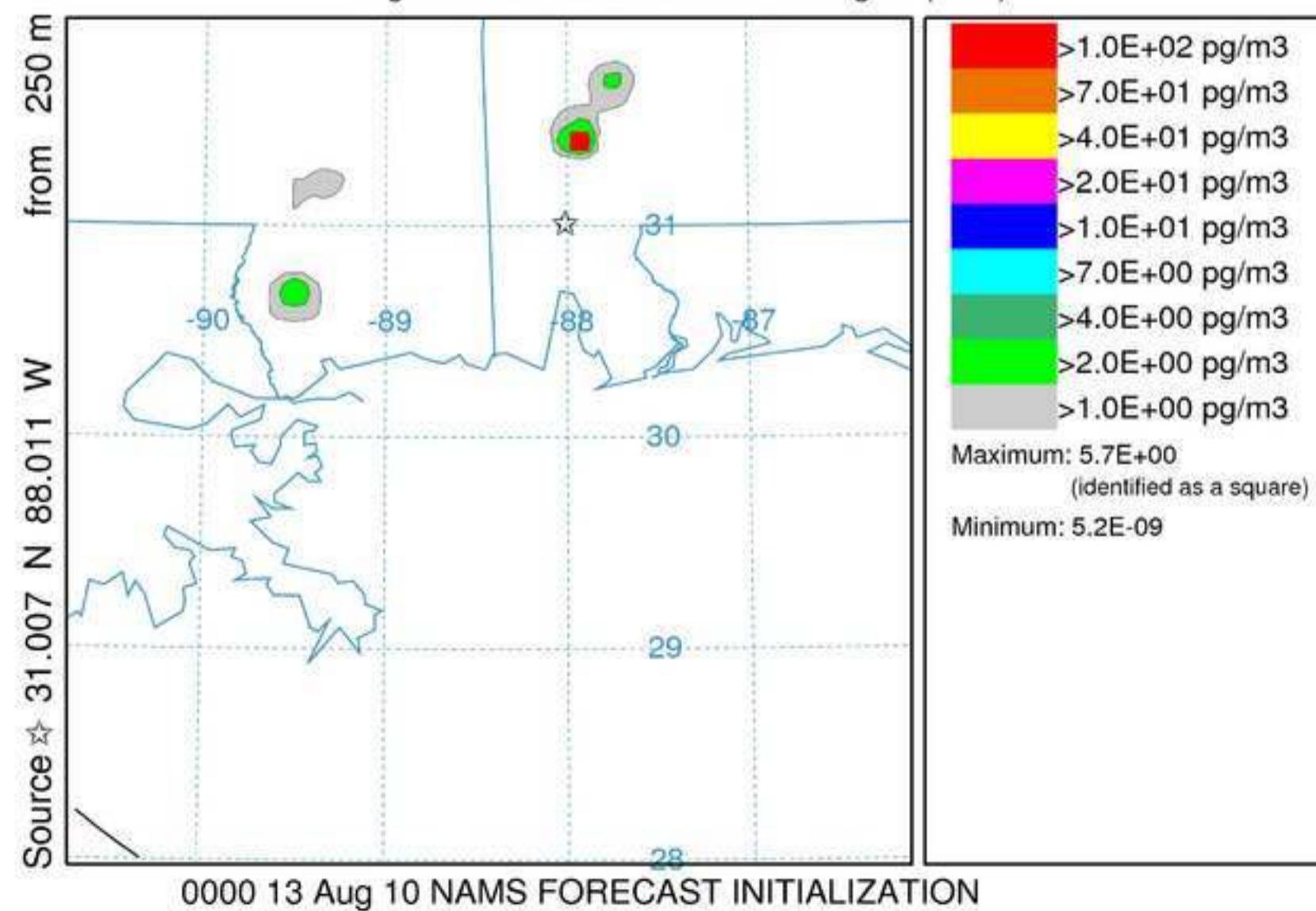
NOAA HYSPLIT MODEL

Concentration (pg/m³) averaged between 650 m and 1500 m
Integrated from 1900 13 Aug to 2000 13 Aug 10 (UTC)
HgII Release started at 0000 11 Aug 10 (UTC)



NOAA HYSPLIT MODEL

Concentration (pg/m³) averaged between 1500 m and 2500 m
Integrated from 1900 13 Aug to 2000 13 Aug 10 (UTC)
HgII Release started at 0000 11 Aug 10 (UTC)



NOAA HYSPLIT MODEL

Concentration (pg/m³) averaged between 2500 m and 3500 m
Integrated from 1900 13 Aug to 2000 13 Aug 10 (UTC)
HgII Release started at 0000 11 Aug 10 (UTC)

